

ProCuity™ Bed Series

Maintenance Manual

| | |
|-----|----------------|
| REF | 300900000000 |
| REF | 3009PX-L-100 |
| REF | 3009PX-L-200 |
| REF | 3009PX-LE-400 |
| REF | 3009PX-LE-450 |
| REF | 3009PX-LE-500 |
| REF | 3009PX-LEX-400 |
| REF | 3009PX-LEX-450 |
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| REF | 3009PX-ZMX-400 |
| REF | 3009PX-ZMX-450 |
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| REF | 3009PX-ZMX-600 |



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Warning/Caution/Note Definition

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

WARNING

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

CAUTION

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

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

Summary of safety precautions

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

WARNING

- Portable RF communications equipment, including peripherals such as antenna cables and external antennas, should be no closer than 12 inches (30 cm) to any part of **ProCuity** bed series, including cables specified by the manufacturer.
 - Avoid stacking or placing equipment adjacent with other equipment to prevent improper operation of the product. If such use is necessary, carefully observe stacked or adjacent equipment to make sure that they operate properly.
 - 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 ESD protective equipment before you open antistatic bags and service electronic parts.
 - Do not place unprotected circuit boards on the floor.
 - Do not overextend the bed extender, the ground wire is still attached and damage could occur.
 - Do not drive the actuator past the support of the screwdrivers to avoid the risk of product damage.
-

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 Manual for operating and use instructions. To view your Operations Manual online, see <https://techweb.stryker.com/>.

Expected service life

The **ProCuity** bed series has a 10 year expected service life under normal use conditions and with appropriate periodic maintenance.

The backup batteries have a two 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

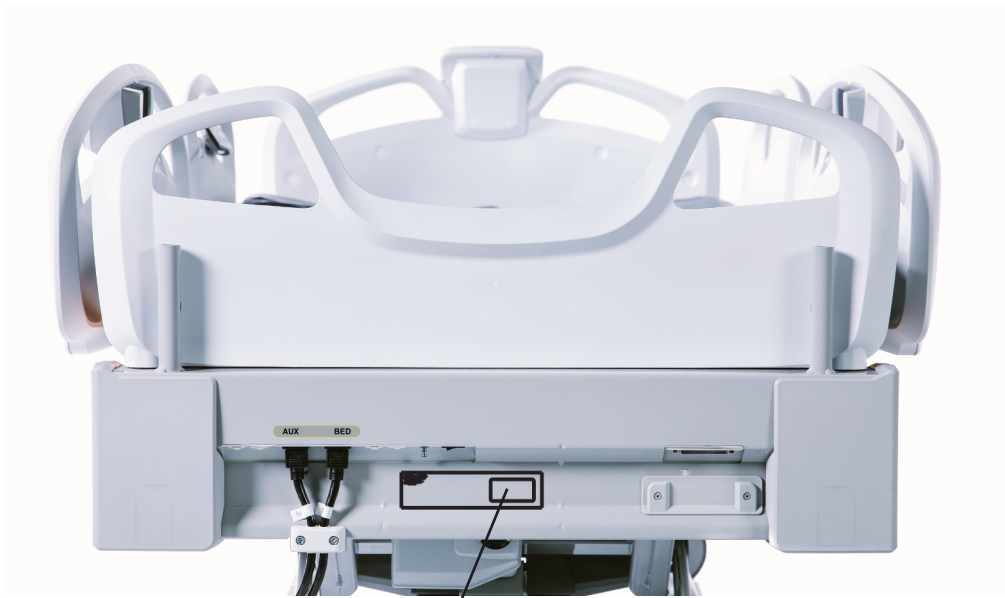
Note - The user and/or the patient should report any serious product-related incident to both the manufacturer and the Competent authority of the European Member State where the user and/or patient is established.

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

You can find the serial number (A) below the headboard at the head of the bed (Figure 1).



A

Figure 1 – Serial number location

Preventive maintenance

Remove the product from service before you perform the preventive maintenance inspection. Check all items listed during annual preventive maintenance for all Stryker Medical products. You may need to perform preventive maintenance checks more often based on your level of product usage. Service only by qualified personnel.

Note - Clean and disinfect the exterior of the support surface before inspection, if applicable.

Inspect the following items:

- _____ All fasteners are secure
- _____ Apply brake pedal and push on bed to confirm that all casters lock
- _____ Footboard and head end siderails flash when brakes are not applied
- _____ Steer caster locks and unlocks
- _____ Siderails move and latch in the highest and intermediate positions
- _____ Fowler CPR release operable on both sides
- _____ IV pole is intact and operable option
- _____ Foley bag hooks intact
- _____ No cracks or splits in headboard, footboard, or siderail panels
- _____ No rips or cracks in mattress cover
- _____ All functions on head end siderails operable (includes LEDs)
- _____ All functions on footboard operable (includes LEDs)
- _____ Calibrate the scale and Bed Exit system
- _____ Motion interrupt operable (below the bed extender)
- _____ Night light operable
- _____ Main/auxiliary outlet power cords and plugs not frayed or damaged
- _____ No cables worn or pinched
- _____ All electrical connections tight
- _____ All grounds secure to frame
- _____ Ground impedance not more than 200 mΩ (milliohms)
- _____ Current leakage not more than 300 μA (microamps)
- _____ Ground chain is clean, intact, and has at least two links touching the floor
- _____ Fowler angle accuracy is 0° - 65°
- _____ Footboard and siderail status lights operable
- _____ Inspect footboard and siderail controls for signs of degradation
- _____ Inspect Fowler dampener for oil leaks
- _____ All motions function
- _____ Nurse call functions
- _____ **iBed Wireless** IR module is intact and footboard icons display option
- _____ Foot end and head end litter bumper intact and not damaged
- _____ Replace bed batteries
- _____ Electric brakes apply and release with footboard and siderail controls option
- _____ **Secure Connect** shows connected when brakes are applied option
- _____ **Zoom** handles move and latch in the upright position option

____ **Zoom** drives forward and backward when throttle is rotated option

____ **Zoom** throttle returns to neutral position when released and **Zoom** motion stops option

| |
|------------------------|
| Product serial number: |
| Completed by: |
| Date: |

Troubleshooting

| Problem | Solution |
|------------------------|---|
| No power to product | <ol style="list-style-type: none"> 1. Check the power cord connections at the wall and the product 2. Check the circuit breakers under the litter/Fowler section on the patient left side <ul style="list-style-type: none"> • If circuit breaker is tripped, push in to reset 3. Check for 120 VAC at inlet on the power supply, CN1 pin 1 (brown) and 2 (blue) 4. Check for 36 VDC on the power supply outlet CN101- (black) and CN102+ (red) <ol style="list-style-type: none"> 4.1. If voltage is present, check V_PS LED is lit or on connector O (J16) on the main control board. Check for same DC voltage on pin 1 (black) and 2 (red). If OK, go to step 5 4.2. If voltage is not present, unplug connector O (J16) on the main control board and recheck for DC voltage at the outlet of the power supply <ul style="list-style-type: none"> • If voltage comes back, re-connect cable O (J16) to the main control board and go to step 3 • If DC voltage does not come back, replace the power supply 4.3. Unplug all connectors from the main control board and recheck voltage on connector O (J16) <ul style="list-style-type: none"> • If DC voltage comes back, plug the cable connections back in until problem comes back. Isolate problem to component or assembly • If DC voltage does not come back, replace the main control board 5. Verify proper operation before you return the product to service |
| No product down motion | <ol style="list-style-type: none"> 1. Power cycle or perform a soft reset of the product 2. Check that the foot end motion interrupt moves freely <ol style="list-style-type: none"> 2.1. Enter the <i>Service menu</i> (page 21), select Diagnostic Info, press the Motion Controller button and check the motion interrupt status is False <ul style="list-style-type: none"> • If False, go to step 3 2.2. Check the main controller LED M_INTPT <ul style="list-style-type: none"> • If lit, check the foot end interrupt switches and cables 3. Check the motion controller board for an error, indicated by a fast flashing LED on the board 4. Enter the <i>Service menu</i> (page 21), select Diagnostic Info, press the Motion Controller button, and then select the gear icon in the upper right corner <ol style="list-style-type: none"> 4.1. Press Head Lift Down and then Foot Lift Down to check for downward motion <ul style="list-style-type: none"> • If motion is not present, did either the head or foot go down? <ul style="list-style-type: none"> ◦ If yes, replace the actuator that did not run • If motion is present, recalibrate product motion 5. Verify proper operation before you return the product to service |

| Problem | Solution |
|----------------------|--|
| No product up motion | <ol style="list-style-type: none"> 1. Power cycle or perform a soft reset of the product 2. Enter the <i>Service menu</i> (page 21), select Diagnostic Info, press the Motion Controller button, and then select the gear icon in the upper right corner <ol style="list-style-type: none"> 2.1. Press Head Lift Up and then Foot Lift Up to check for upward motion <ul style="list-style-type: none"> • If motion is not present, did either the head or foot go up? <ul style="list-style-type: none"> ◦ If yes, replace the actuator that did not run • If motion is present, recalibrate product motion 3. Check the motion controller board for an error, indicated by a fast flashing LED on the board 4. Verify proper operation before you return the product to service |
| No Gatch down motion | <ol style="list-style-type: none"> 1. Power cycle or perform a soft reset of the product 2. Does the actuator go up? <ol style="list-style-type: none"> 2.1. If no, go to step 4 3. Enter the <i>Service menu</i> (page 21), select Diagnostic Info, press the Motion Controller button, and then select the gear icon in the upper right corner <ol style="list-style-type: none"> 3.1. Press Gatch Down to check for down motion <ul style="list-style-type: none"> • If motion is present, recalibrate product motion 4. Check the motion controller board for an error, indicated by a fast flashing LED on the board 5. Verify proper operation before you return the product to service |
| No Gatch up motion | <ol style="list-style-type: none"> 1. Power cycle or perform a soft reset of the product 2. Does the actuator go down? <ol style="list-style-type: none"> 2.1. If no, go to step 4 3. Enter the <i>Service menu</i> (page 21), select Diagnostic Info, press the Motion Controller button, and then select the gear icon in the upper right corner <ol style="list-style-type: none"> 3.1. Press Gatch Up to check for up motion <ul style="list-style-type: none"> • If motion is present, recalibrate product motion 4. Check the motion controller board for an error, indicated by a fast flashing LED on the board 5. Verify proper operation before you return the product to service |

| Problem | Solution |
|-----------------------|--|
| No Fowler down motion | <ol style="list-style-type: none"> 1. Power cycle or perform a soft reset of the product 2. Does the actuator go up? <ol style="list-style-type: none"> 2.1. If no, go to step 4 3. Enter the <i>Service menu</i> (page 21), select Diagnostic Info, press the Motion Controller button, and then select the gear icon in the upper right corner <ol style="list-style-type: none"> 3.1. Press Fowler down to check for down motion <ul style="list-style-type: none"> • If motion is present, recalibrate product motion 4. Check the motion controller board for an error, indicated by a fast flashing LED on the board 5. Verify proper operation before you return the product to service |
| No Fowler up motion | <ol style="list-style-type: none"> 1. Power cycle or perform a soft reset of the product 2. Does the actuator go down? <ol style="list-style-type: none"> 2.1. If no, go to step 4 3. Enter the <i>Service menu</i> (page 21), select Diagnostic Info, press the Motion Controller button, and then select the gear icon in the upper right corner <ol style="list-style-type: none"> 3.1. Press Fowler Up to check for up motion <ul style="list-style-type: none"> • If motion is present, recalibrate product motion 4. Check the motion controller board for an error, indicated by a fast flashing LED on the board 5. Verify proper operation before you return the product to service |

| Load cell wiring - Scale/Bed Exit | | | | |
|-----------------------------------|----------|----------|--------------|--------------|
| Function | - signal | + signal | + excitation | - excitation |
| Pin | 1 | 2 | 3 | 4 |
| Color | Red | White | Green | Black |

| Load cell wiring - Resistance expectation between pairs (tolerance +/-10 ohms) | | |
|--|-------|------|
| Pin A | Pin B | Ohms |
| 1 | 2 | 350 |
| 1 | 3 | 262 |
| 1 | 4 | 262 |
| 2 | 3 | 262 |
| 2 | 4 | 262 |
| 3 | 4 | 350 |

Error codes

See product footboard for error codes and descriptions.

Wiring diagrams

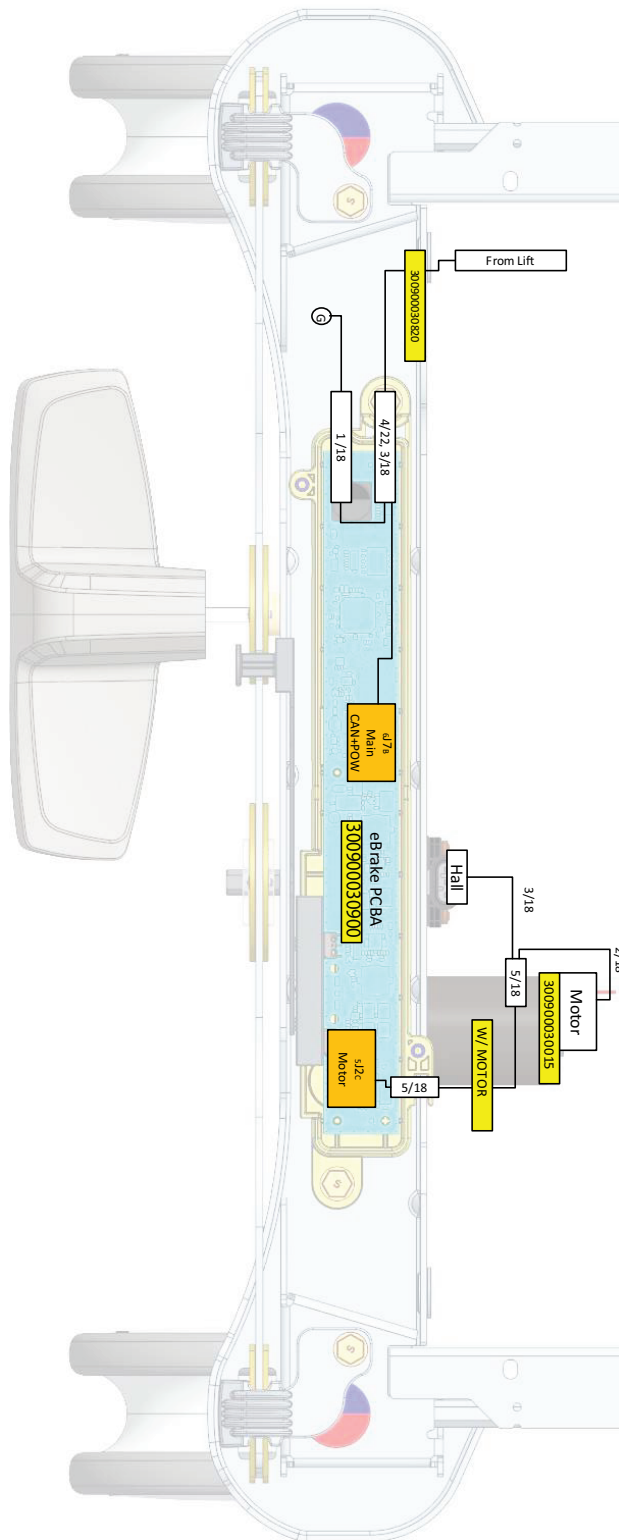


Figure 2 – Electric brake

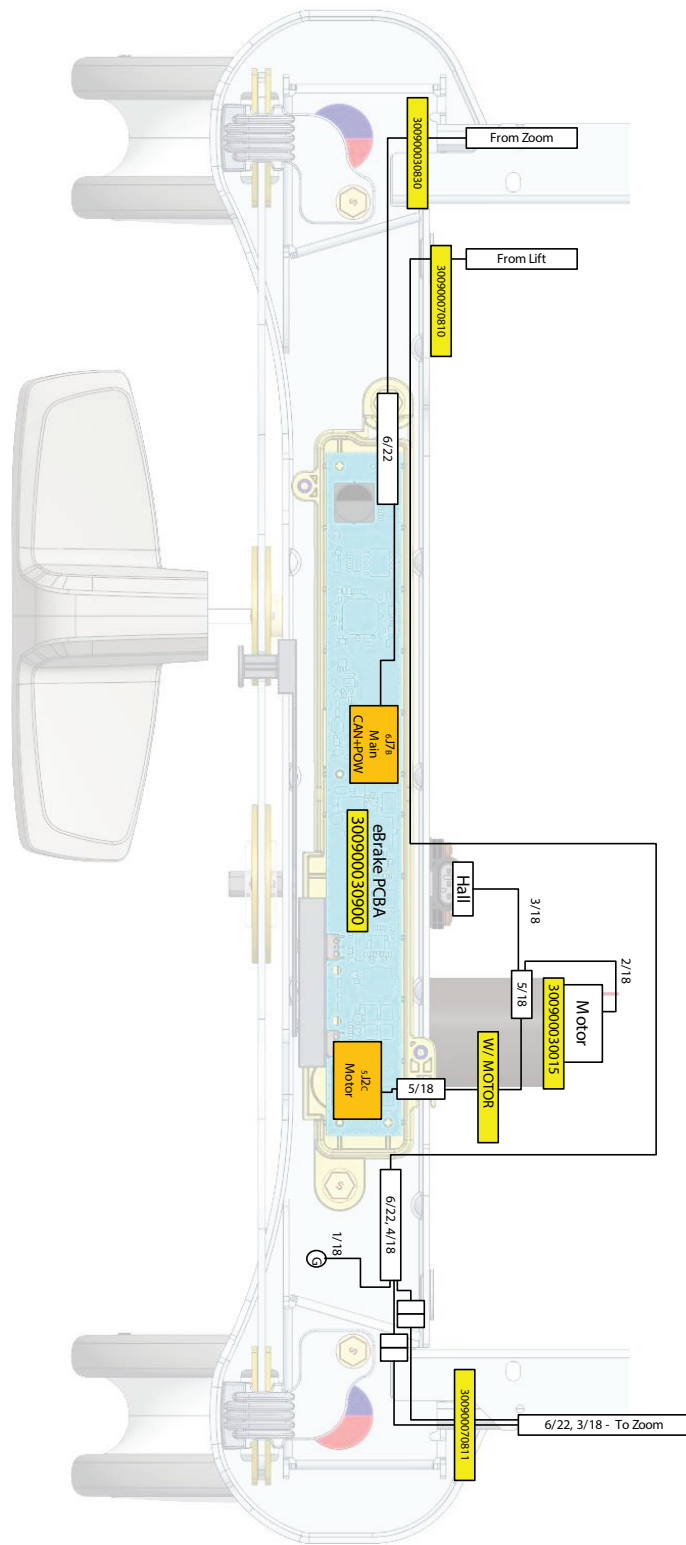


Figure 3 – Electric brake with Zoom

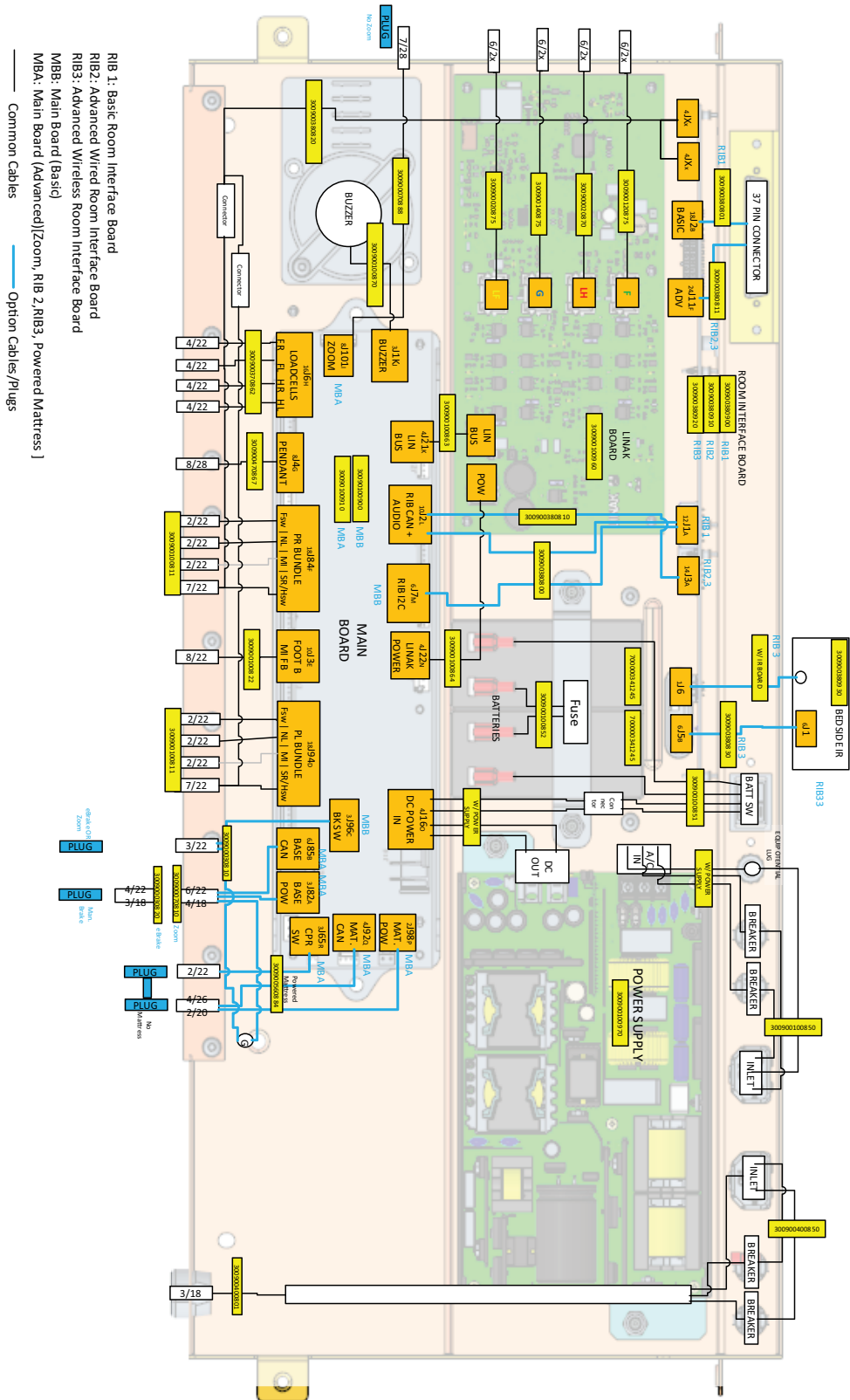


Figure 4 – Enclosure

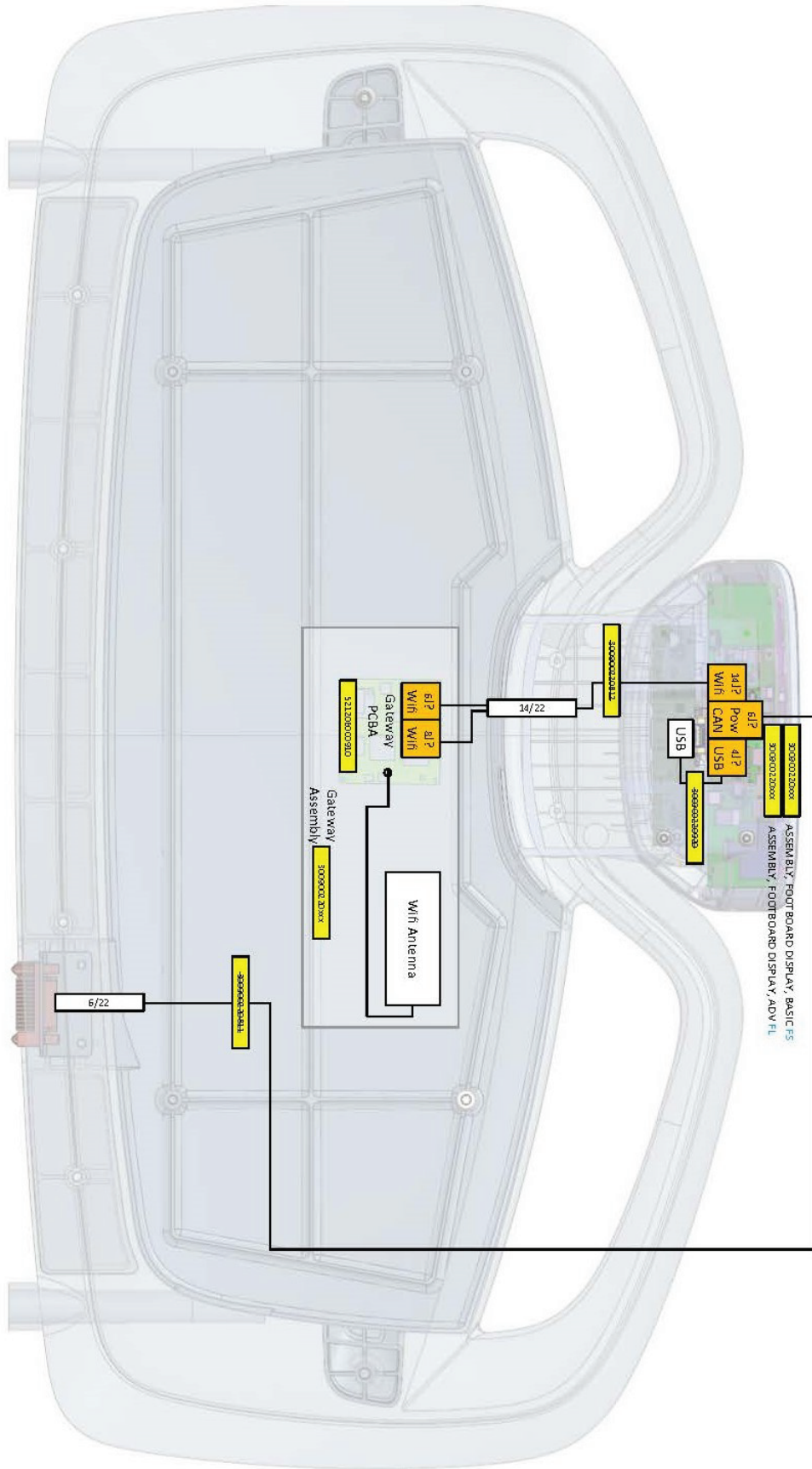


Figure 5 – Footboard

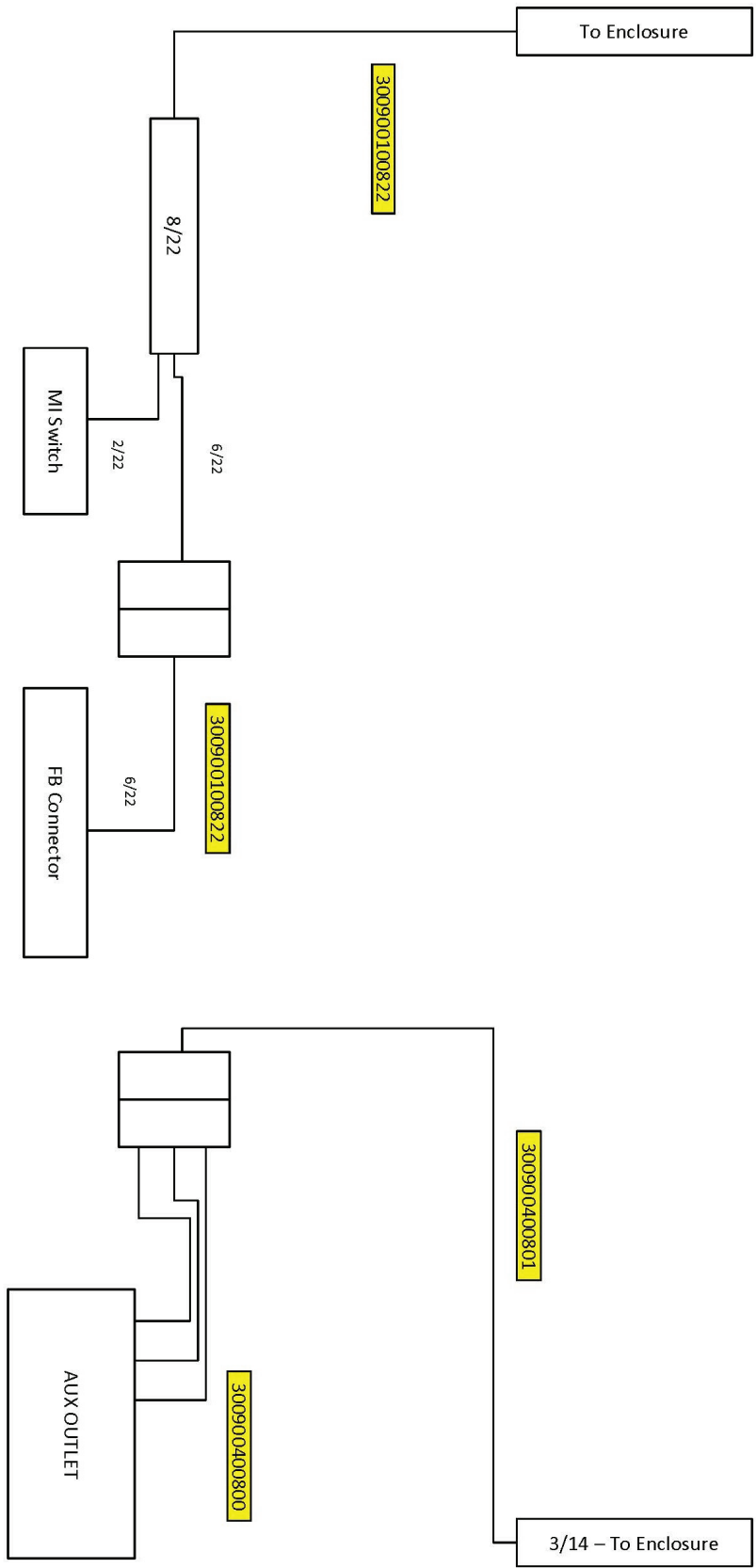


Figure 6 – Foot end

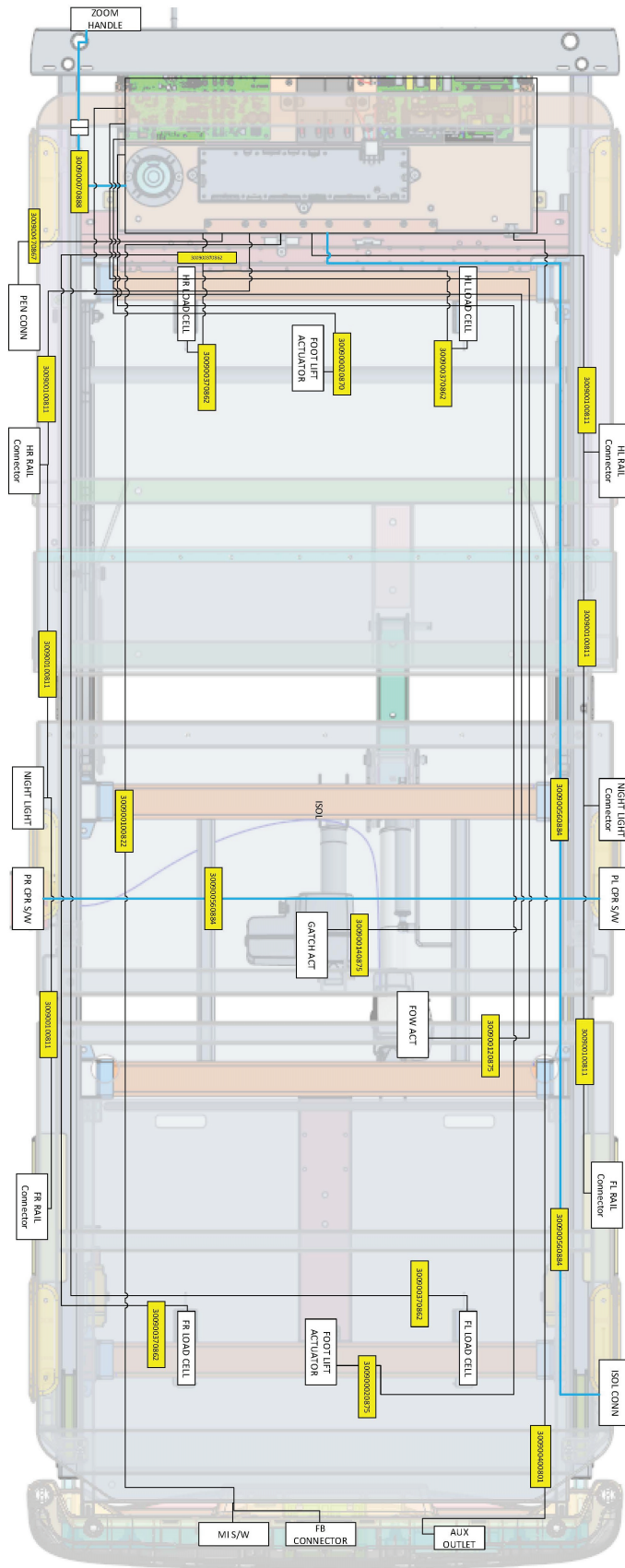


Figure 7 – Litter

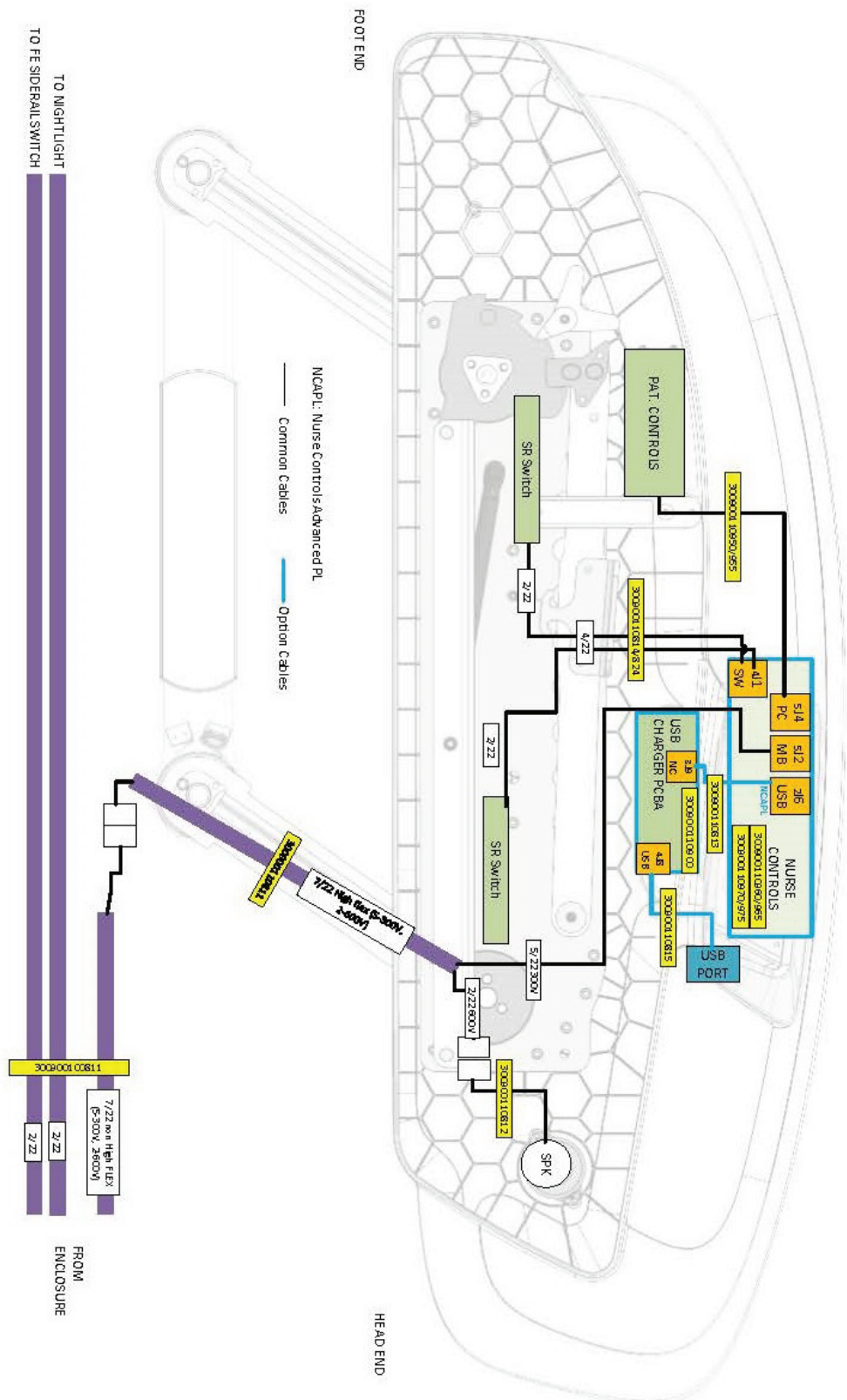


Figure 8 – Siderail

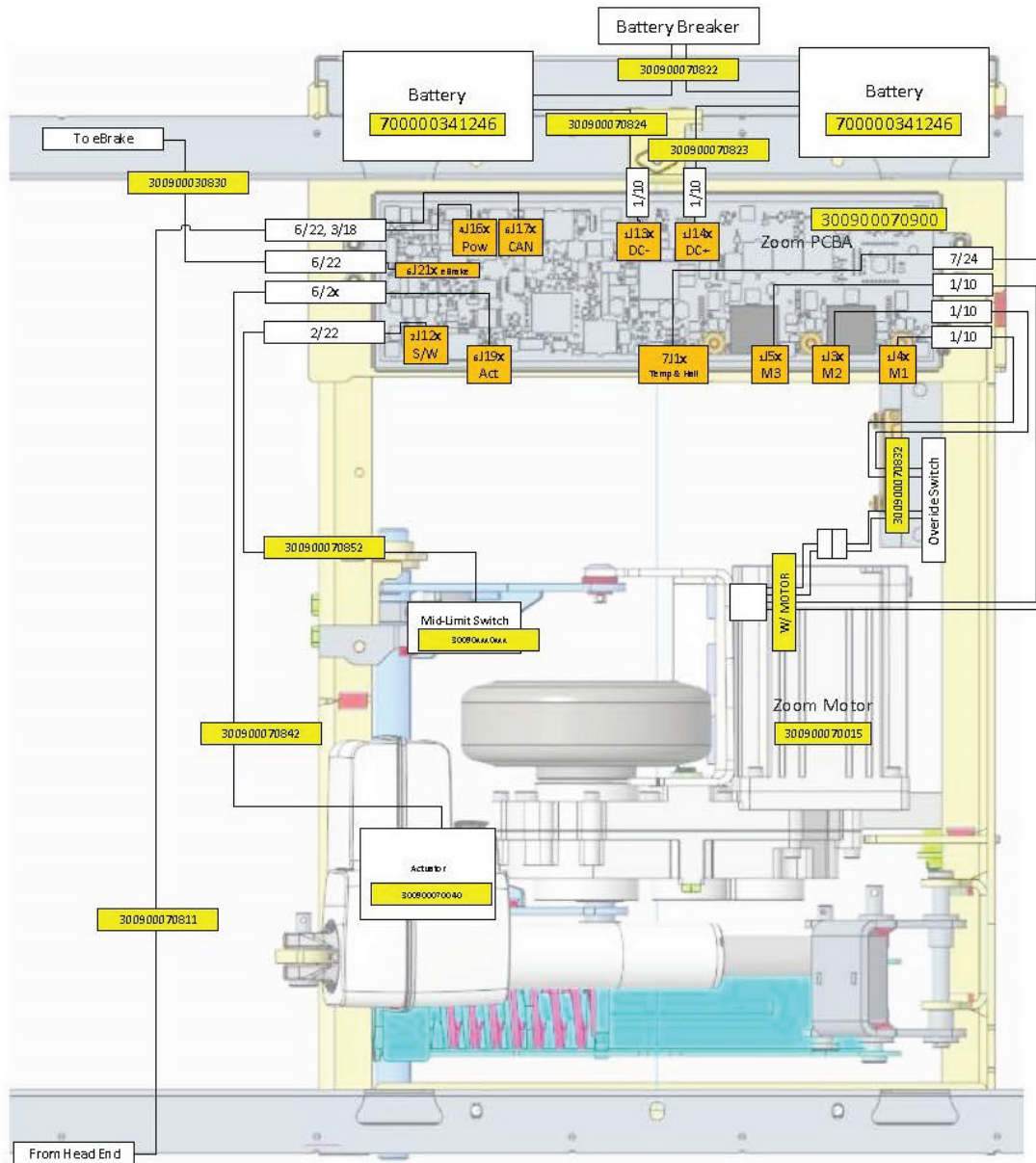


Figure 9 – Zoom

Service menu

The service menu provides access to the following settings:

- Scale calibration
- Angle calibration

To access the service menu:

1. Lift up on the footboard until the screen turns off.
2. Reseat the footboard.
3. When **ProCuity** appears on the screen, press and hold **ProCuity** for five seconds.
4. Release **ProCuity**, tap the bottom left corner of the screen, and tap the bottom right corner of the screen.

Note - If there is no interaction with the screen for two minutes, the product will return to the home screen.

Scale calibration

1. Enter the *Service menu* (page 21).

4.3" display

- a. Select **Configuration**.
- b. Select **Calibration**.

2. Select **Scale**.
3. Follow the on screen prompts to calibrate the scale.

Note - Select the load cell being replaced so that the status clears. When you change a load cell, record the **ZERO** and **SENS** values when you perform scale calibration.

8" display

- a. Select **Calibration**.

Angle calibration

Tools required:

- Inclinometer (only if the main control board was replaced)

Procedure:

1. Enter the *Service menu* (page 21).

4.3" display

- a. Select **Configuration**.
- b. Select **Calibration**.

2. Select **Motion**.
3. Follow the on screen prompts to calibrate the angle.

8" display

- a. Select **Calibration**.

Service

Protecting against electrostatic discharge (ESD)

CAUTION

- Always use 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.

Brake/steer pedal replacement

Tools required:

- T30 Torx driver
- Ratchet

Procedure:

1. Push down on the brake pedal to apply the brake.
2. Unplug the product from the wall.
3. Turn off the battery disconnect switch to turn the product off.
4. Using a ratchet and a T30 Torx driver, remove the screw (Y) that secures the brake/steer pedal (K) to the brake shaft (Figure 10). Remove the pedal.

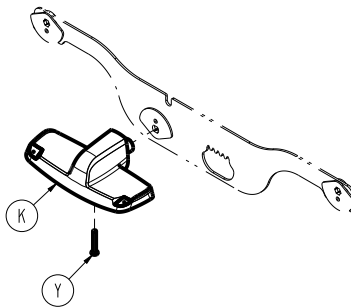


Figure 10 – Brake/steer pedal replacement

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

Caster replacement, non-steer

Tools required:

- Slotted screwdriver
- Diagonal pliers
- Ratchet
- 1/2" socket
- Small floor jack

Procedure:

1. Push down on the brake pedal to apply the brake.
2. Raise the product to the highest height position.
3. Unplug the product from the wall.
4. Turn off the battery disconnect switch to turn the product off.
5. Using a slotted screwdriver and diagonal pliers, remove the retainers (C) from the left and right center base covers (B) (Figure 11). Discard the retainers. Remove the covers.

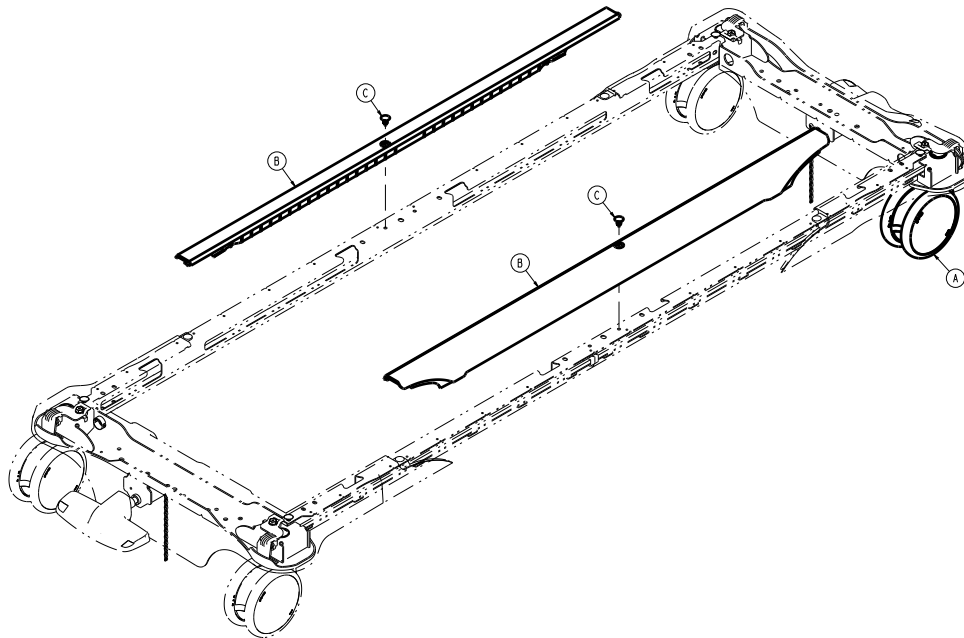


Figure 11 – Removing the covers

6. Using a slotted screwdriver and diagonal pliers, remove the eight retainers (V) that secure the head end (C) and foot end base covers (D) to the base frame (Figure 12). Discard the retainers. Remove the covers.

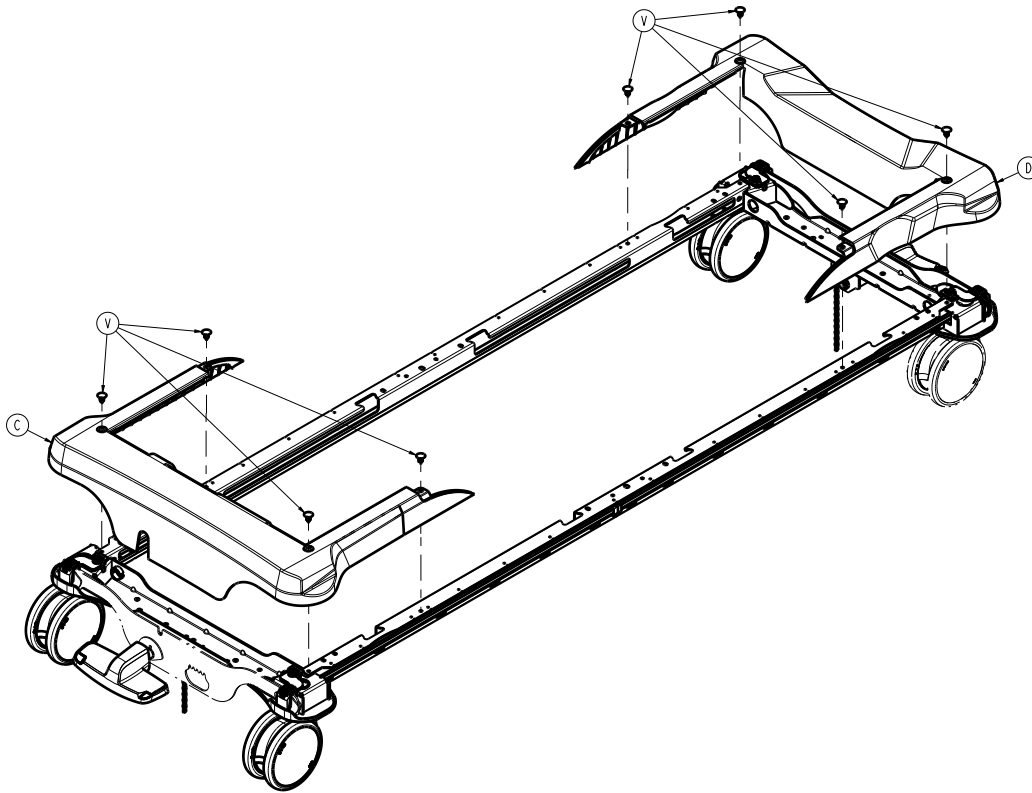


Figure 12 – Removing the covers

- Using a ratchet and 1/2" socket, remove the bolt (AB) and brake shaft retainer on the side of the caster (which must be replaced) on the head end and foot end of the brake shaft (above the caster) (Figure 13).

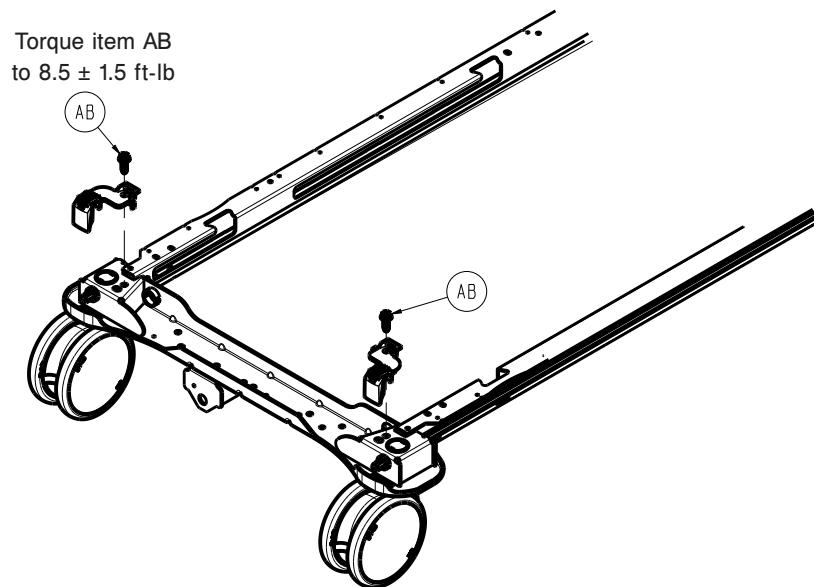


Figure 13 – Removing the caster

- From the opposite end of the caster (B) (which must be replaced), move the brake shaft (M) toward that end until it is out of the caster (B) (which must be replaced) (Figure 14).

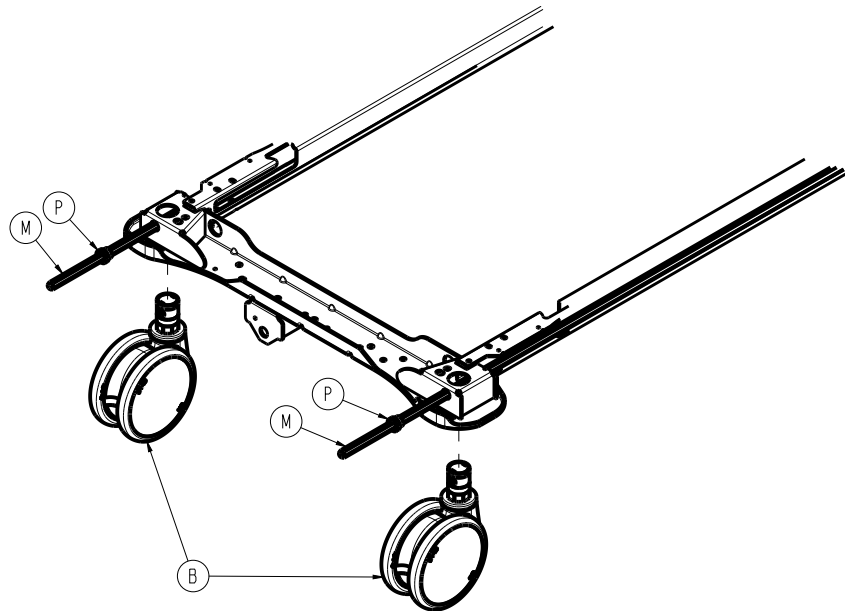


Figure 14 – Removing the caster

9. Using a small floor jack, raise the base frame near the caster (which must be replaced) to remove the caster.

Note - The caster stem has a hex on the bottom which keys to the base frame when installed.

10. Reverse steps to reinstall.

Note - The orange half of the caster stem top (black/orange) must be on the head end side.

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

Caster steer replacement, foot end, right

Tools required:

- Slotted screwdriver
- Diagonal pliers
- Ratchet
- 1/2" socket
- Small floor jack

Procedure:

1. Push down on the brake pedal to apply the brake.
2. Raise the product to the highest height position.
3. Unplug the product from the wall.
4. Turn off the battery disconnect switch to turn the product off.
5. Using a slotted screwdriver and diagonal pliers, remove the retainers (C) from the left and right center base covers (B) (Figure 11). Discard the retainers. Remove the covers.
6. Using a slotted screwdriver and diagonal pliers, remove the eight retainers (V) that secure the head end (C) and foot end base covers (D) to the base frame (Figure 12). Discard the retainers. Remove the covers.
7. Using a ratchet and 1/2" socket, remove the bolt (AB) and brake shaft retainer on the side of the caster on the head end and foot end of the brake shaft (above the caster) (Figure 13).
8. From the head end, move the brake shaft (M) toward the head until it is out of the caster (B) (Figure 14).
9. Using a small floor jack, raise the base frame near the foot right caster to remove the caster.

Note - The caster stem has a hex on the bottom which keys to the base frame when installed.

10. Reverse steps to reinstall.

Note - The orange half of the caster stem top (green/orange) must be on the head end side.

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

Cover replacement, foot end, front

Tools required:

- Needle nose pliers
- T15 Torx driver
- T30 Torx driver
- Ratchet
- 3" extension
- Slotted screwdriver
- Tape measure

Procedure:

1. Push down on the brake pedal to apply the brake.
2. Raise product to the highest height position.
3. Extend the bed extender to the out and locked position.
4. Using needle nose pliers, remove the two ruer clips (BL) and clevis pins (BK) that secure the bed extender pan (AL) to the foot frame (Figure 15). Save the ruer clips and clevis pins.

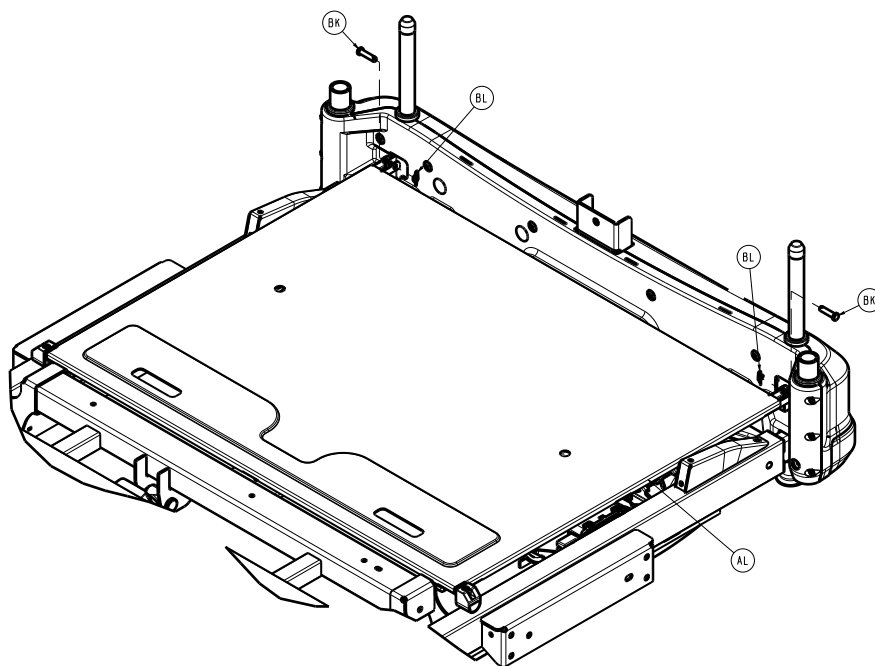


Figure 15 – Replacing the cover

5. Using a tape measure, slide the bed extender pan toward the head end of the product 3".

CAUTION - Do not overextend the bed extender, the ground wire is still attached and damage could occur.

6. Using a T15 Torx driver, remove the six outer screws (R) that secure the front cover (L) to the rear cover (M) (Figure 16). Save the screws.

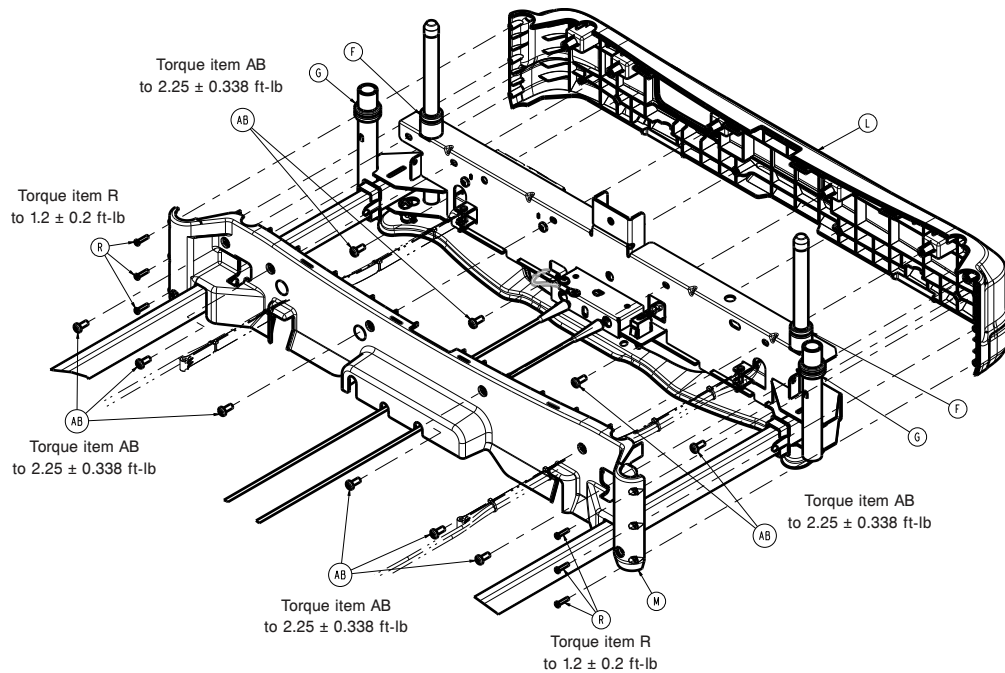


Figure 16 – Replacing the cover

7. Using a T30 Torx driver, remove the six screws (AB) that secure the front cover to the rear cover (M) (Figure 16). Save the screws.
8. Using a slotted screwdriver, push down on the four cover locks near the top of the cover to remove and save the rear cover.
9. Using a T30 Torx driver with a ratchet and 3" extension, remove the four screws (AB) that secure the front cover to the extender frame (Figure 16). Remove and discard the front cover.
10. Reverse steps to reinstall.

Note - When you reinstall, position the IV pole grommets into the foot end cover.

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

Cover replacement, foot end, rear

Tools required:

- Needle nose pliers
- T15 Torx driver
- T30 Torx driver
- Ratchet
- Slotted screwdriver
- Tape measure

Procedure:

1. Push down on the brake pedal to apply the brake.
2. Raise product to the highest height position.
3. Extend the bed extender to the out and locked position.
4. Using needle nose pliers, remove the two rue clips (BL) and clevis pins (BK) that secure the bed extender pan (AL) to the foot frame (Figure 15). Save the rue clips and clevis pins.
5. Using a tape measure, slide the bed extender pan toward the head end of the product 3".

CAUTION - Do not overextend the bed extender, the ground wire is still attached and damage could occur.

- Using a T15 Torx driver, remove the six outer screws (R) that secure the front cover (L) to the rear cover (M) (Figure 16). Save the screws.
- Using a T30 Torx driver, remove the six screws (AB) that secure the front cover to the rear cover (M) (Figure 16). Save the screws.
- Using a slotted screwdriver, push down on the four cover locks near the top seam of the cover to remove and discard the back cover.
- Reverse steps to reinstall.
- Verify proper operation before you return the product to service.

Cover replacement, head end, front

Tools required:

- T30 Torx driver

Procedure:

- Push down on the brake pedal to apply the brake.
- Raise product to the highest height position.
- Raise the Fowler up to about 30 degrees.
- Using a T30 Torx driver, remove the two screws (AN) that secure the front head cover (F, G) (Figure 17). Remove and discard the cover.

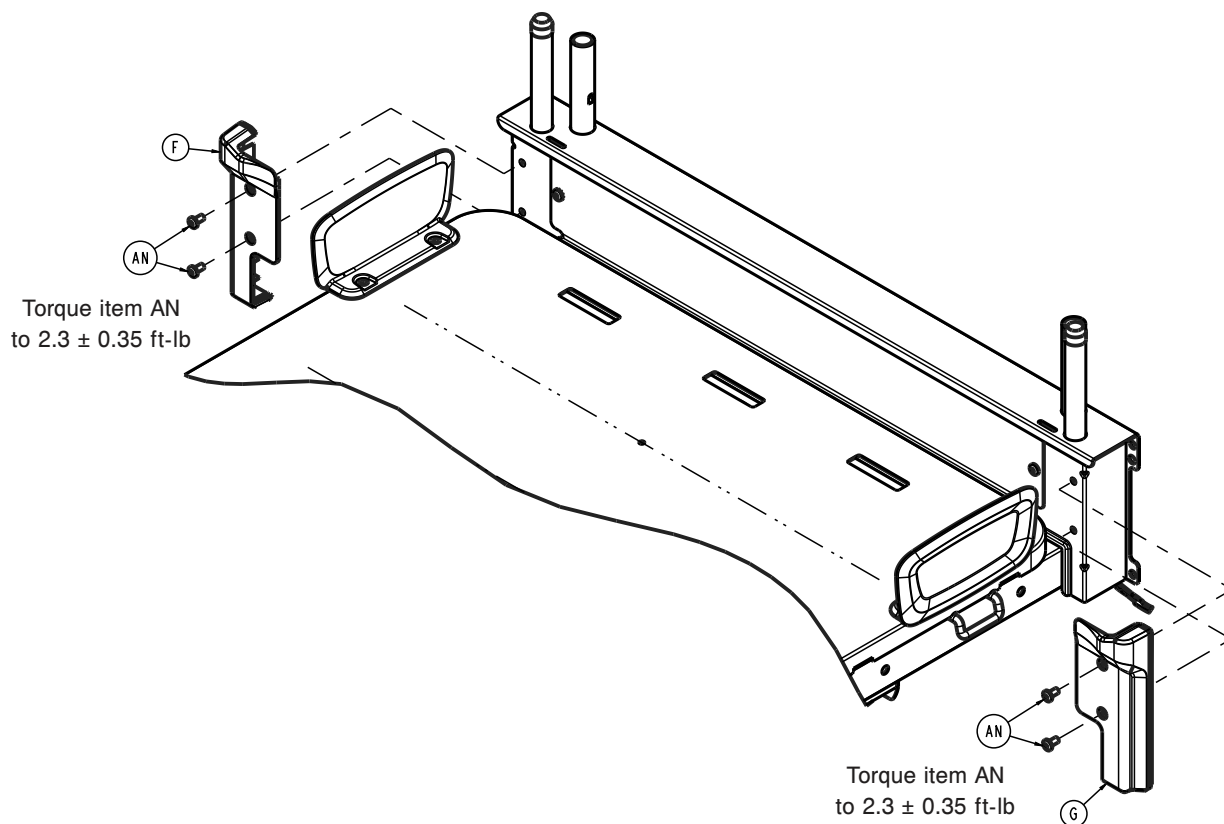


Figure 17 – Removing the cover

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

Siderail cable and cover replacement, left, litter side

Tools required:

- T15 Torx driver
- T20 Torx driver
- T25 Torx driver
- T27 Torx driver
- Wire cutters
- Needle nose pliers
- Marker

Procedure:

1. Push down on the brake pedal to apply the brake.
2. Raise the product to the highest height position.
3. Raise the Fowler to the highest position.
4. Raise the head end siderails to the highest locked position.
5. Remove the headboard.
6. Unplug the power cord from the wall.
7. Turn off the battery disconnect switch.
8. Using a T25 Torx driver, remove the two screws (BJ) that secure the electrical cover (E) to the litter (Figure 18). Save the screws.

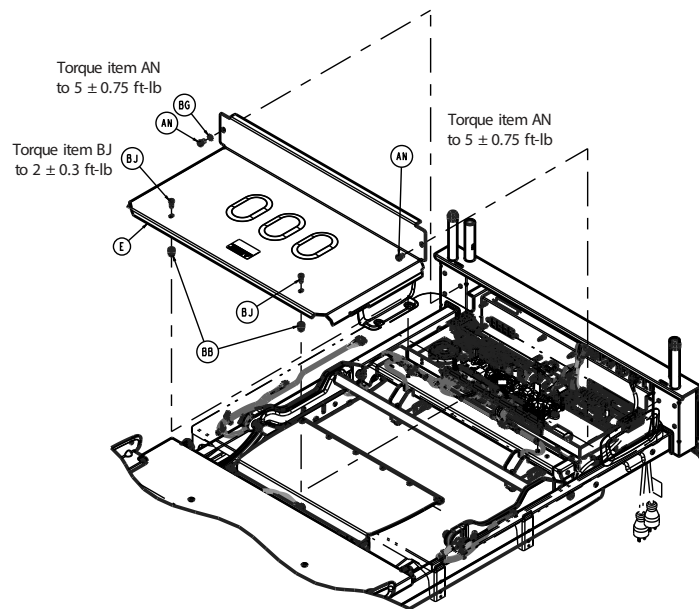


Figure 18 – Removing the cover

9. Using a T27 Torx driver, remove the two screws (AN) and washers (BG) that secure the electrical cover (E) to the litter and remove the cover. Save the screws, washers, and cover.
10. Using a T20 Torx driver, remove four wire clamp (K) screws (AF) from left to right (Figure 19).

Note - The remaining two screws on the right can remain tight.

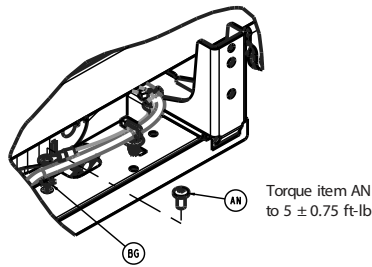


Figure 21 – Removing the cable

15. Using a marker, mark the siderail cable where the cable is attached to the Fowler weldment with a cable tie for installation reference. There are three cable tie locations.

16. Using wire cutters, cut the three cable ties that secure the siderail cable to the Fowler weldment.

Note - Make sure you do not damage the cable when you cut the cable ties. When you install the new Fowler weldment, install the supplied cables ties. Trim and discard the excess cable ties.

17. Pull the siderail cable through the upper cable hole to gain access to the siderail cable connector. Unplug the connector.

18. Pull the litter side of the siderail cable to remove it from the Fowler weldment.

19. Using needle nose pliers, remove the left side upper Fowler link rue clip (BM) and clevis pin (AV) (Figure 22). Save the rue clip and clevis pin.

Note - Use one hand to push up on the Fowler to relieve some of the pressure when you remove the clevis pin.

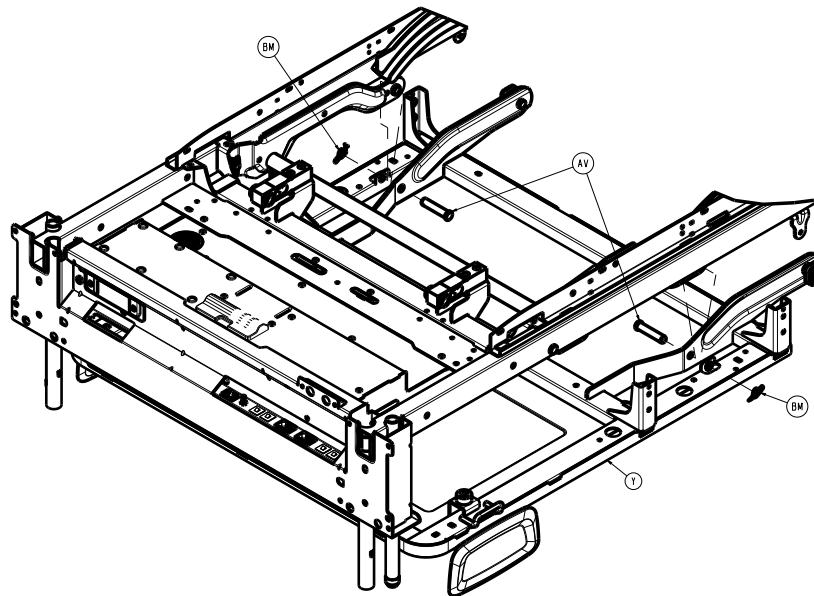


Figure 22 – Removing the cover

20. Using a T15 Torx driver, remove the three screws (BP) that secure the Fowler link cover (V) to the Fowler link (Figure 23). Save the screws.

Note - When you remove the upper screw, use one hand to push up on the Fowler to gain access to the screw.

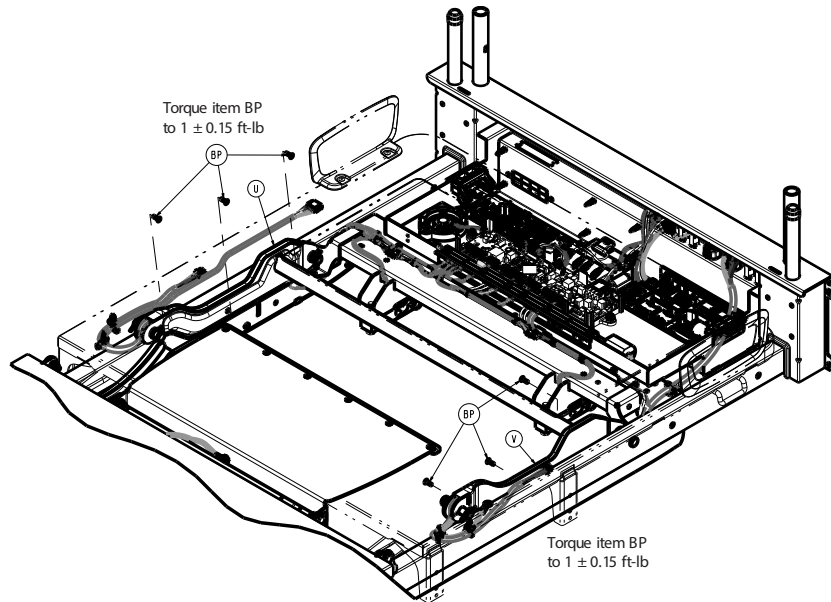


Figure 23 – Removing the cover

21. Reverse the steps to install the new cover and cable assembly.
22. Verify proper operation before you return the product to service.

Siderail cable and cover replacement, right, litter side

Tools required:

- T15 Torx driver
- T20 Torx driver
- T25 Torx driver
- T27 Torx driver
- T30 Torx driver
- Wire cutters
- Needle nose pliers
- Marker

Procedure:

1. Push down on the brake pedal to apply the brake.
2. Raise the product to the highest height position.
3. Raise the Fowler to the highest position.
4. Raise the head end siderails to the highest locked position.
5. Remove the headboard.
6. Unplug the power cord from the wall.
7. Turn off the battery disconnect switch.
8. Using a T25 Torx driver, remove the two screws (BJ) that secure the electrical cover (E) to the litter (Figure 18). Save the screws.
9. Using a T27 Torx driver, remove the two screws (AN) and washers (BG) that secure the electrical cover (E) to the litter and remove the cover. Save the screws, washers, and cover.
10. Using a T20 Torx driver, remove the four wire clamp (K) screws (AF) from right to left (Figure 19).

Note - The remaining two screws on the left can remain tight.

11. Unplug the right siderail cable speaker connector in the electrical box on the left side.
12. Unplug the right siderail cable from the main control board header (F).

Note - When you install the new cover and cables, there is a required service slack in the cable near the electrical enclosure.

13. Using wire cutters, cut the two cable ties (AY) that secure the siderail cable in the electrical box. Discard the cut cable ties (Figure 20).

Note - Make sure you do not damage the cable when you cut the cable ties. Use the supplied cable ties when you install the new arm cover and cables. Trim and discard the excess cable ties.

14. Using a marker, mark the siderail cable where the cable is attached to the Fowler weldment with a cable tie for installation reference. There are three cable tie locations.
15. Using wire cutters, cut the three cable ties that secure the siderail cable to the Fowler weldment.

Note - Make sure you do not damage the cable when you cut the cable ties. Use the supplied cable ties when you install the new arm cover and cables. Trim and discard the excess cable ties.

16. Pull the siderail cable through the upper cable hole to gain access to the siderail cable connector. Unplug the connector.
17. Remove and save the hand pendant.
18. Using a T30 Torx driver, remove the two screws (F) that secure the pendant port/bracket assembly (E) to the Fowler weldment (Figure 24). Save the screws.

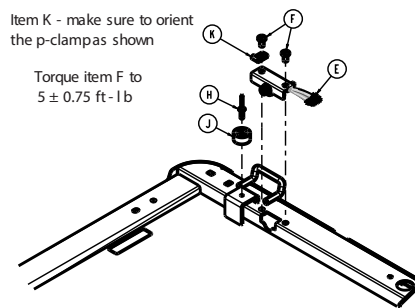


Figure 24 – Removing the cable

19. Pull on the hand pendant port/bracket to gain access to the cable connector. Unplug the connector and remove the pendant port/bracket. Save the pendant port/bracket.
20. Pull the litter side of the siderail cable and hand pendant port cable to remove it from the Fowler weldment.
21. Using needle nose pliers, remove the right side upper Fowler link rue clip (BM) and clevis pin (AV) (Figure 22). Save the rue clip and clevis pin.

Note - Use one hand to push up on the Fowler to relieve some of the pressure when you remove the clevis pin.

22. Using a T15 Torx driver, remove the three screws (BP) that secure the Fowler link cover (U) to the Fowler link (Figure 23). Save the screws.

Note - When you remove the upper screw, use one hand to push up on the Fowler to gain access to the screw.

23. Reverse the steps to install the new cover and cable assembly.
24. Verify proper operation before you return the product to service.

Bumper replacement, head end, rear (non-Zoom)

Tools required:

- T30 Torx driver
- 7/16" nut driver

Procedure:

1. Push down on the brake pedal to apply the brake.
2. Raise product to the highest height position.
3. Raise the Fowler up to about 30 degrees.
4. Using a T30 Torx driver, remove the two screws (AN) that secure the front head cover (F, G) (Figure 17). Remove and save the screws and cover.
5. Using a 7/16" nut driver, remove the four nuts (R) that secure the rear head bumper (G, H) (Figure 25). Save the nuts. Remove and discard the bumper.

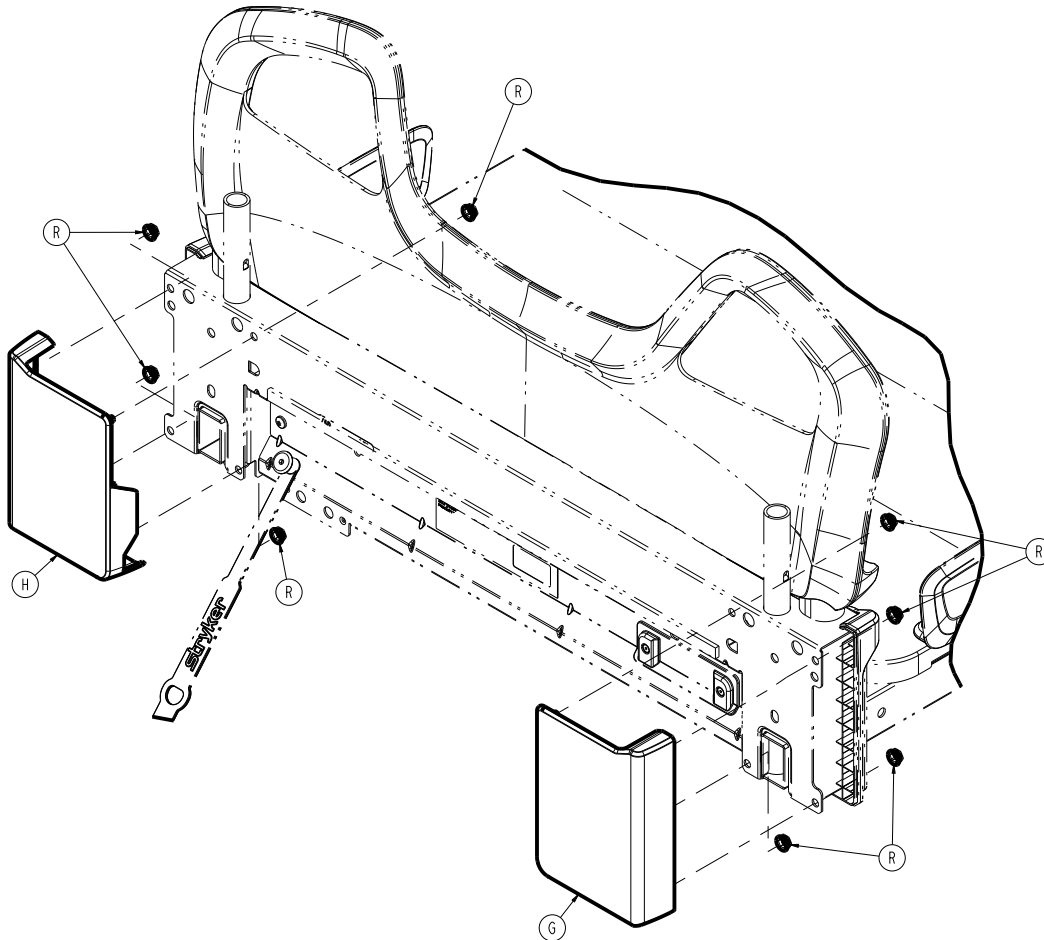


Figure 25 – Replacing the bumper

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

Bumper replacement, Zoom drive handle

Tools required:

- T25 Torx driver
- T30 Torx driver
- **Syn-Tech** grease (3000-200-179)

Procedure:

1. Push down on the brake pedal to apply the brake.

2. Raise the product to the highest height position.
 3. Raise the Fowler to the full up position.
 4. Unplug the product from the wall.
 5. Turn off the battery disconnect switch to turn the product off.
 6. Trip the **Zoom** circuit breaker to turn **Zoom** off.
 7. Using a T25 Torx driver, remove the two screws (BJ) that secure the litter electronics box cover (E) to the electronics box assembly (Figure 26). Save the screws.
 8. Using a T30 Torx driver, remove the two screws (AN) that secure the litter electronics box cover (E) to the electronics box assembly and remove the cover (Figure 26). Save the screws and cover.
 9. Disconnect the **Zoom** handle cable from the main control board connector.
 10. Using a T30 Torx driver, remove the two screws (AN) that secure the front head cover (F) (Figure 17). Save the screws and cover.
 11. Using a T25 Torx driver, remove the three screws (AA) that secure the **Zoom** drive handle assembly (P) to the head end litter weldment and remove the **Zoom** drive handle assembly (P) (Figure 71). Save the screws.
 12. Using a T30 Torx driver, remove the three screws (E) that secure the **Zoom** drive handle (A) to the bumper (B) and remove the pivot plate (D) (Figure 72). Save the pivot plate.
- Note** - When you reinstall the **Zoom** drive handle assembly, make sure that you apply **Syn-Tech** grease to the pivot area of the handle.
13. Remove and save the **Zoom** drive handle assembly.
 14. Using a T30 Torx driver, remove the four screws (F) that secure the **Zoom** drive handle support bracket (C) to the bumper (B) (Figure 72). Save the screws and support bracket.
 15. Reverse steps to reinstall.
 16. Verify proper operation before you return the product to service.

Bumper replacement, Zoom push handle

Tools required:

- T25 Torx driver
- T30 Torx driver
- **Syn-Tech** grease (3000-200-179)

Procedure:

1. Push down on the brake pedal to apply the brake.
2. Raise the product to the highest height position.
3. Raise the Fowler to the full up position.
4. Unplug the product from the wall.
5. Turn off the battery disconnect switch to turn the product off.
6. Trip the **Zoom** circuit breaker to turn **Zoom** off.
7. Using a T30 Torx driver, remove the two screws (AN) that secure the front head cover (G) (Figure 17). Save the screws and cover.
8. Using a T25 Torx driver, remove the three screws (AA) that secure the **Zoom** push handle assembly (R) to the head end litter weldment and remove the **Zoom** push handle assembly (R) (Figure 71). Save the screws.
9. Using a T30 Torx driver, remove the three screws (E) that secure the **Zoom** push handle (A) to the bumper (B) and remove the pivot plate (D) (Figure 73). Save the pivot plate.

Note - When you reinstall the **Zoom** push handle assembly, make sure that you apply **Syn-Tech** grease to the pivot area of the handle.

10. Remove and save the **Zoom** push handle assembly.
11. Using a T30 Torx driver, remove the four screws (F) that secure the **Zoom** push handle support bracket (C) to the bumper (B) (Figure 73). Save the screws and support bracket.
12. Reverse steps to reinstall.
13. Verify proper operation before you return the product to service.

Main battery replacement

Tools required:

- T25 Torx driver
- T30 Torx driver
- Ratchet
- 7/16" socket
- Wire cutters

Procedure:

1. Push down on the brake pedal to apply the brake.
2. Raise the product to the highest height position.
3. Raise the Fowler to the full up position.
4. Unplug the product from the wall outlet.
5. Turn off the battery disconnect switch to turn the product off.
6. Using a T25 Torx driver, remove the two screws (BJ) that secure the litter electronics box cover (E) to the electronics box assembly (Figure 26). Save the screws.

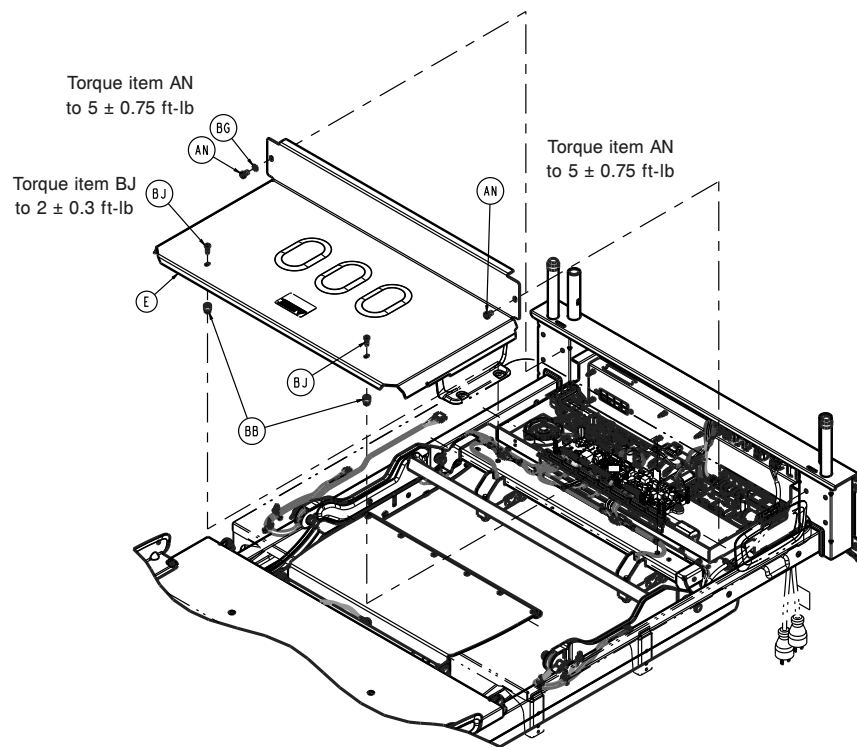


Figure 26 – Removing the cover

7. Using a T30 Torx driver, remove the two screws (AN) that secure the litter electronics box cover (E) to the electronics box assembly (Figure 26). Save the screws and cover.

8. Unplug all battery cables from the batteries.

Note - Note all cable locations before you unplug the cables.

9. Using wire cutters, cut the cable tie that secures the power cable to the disconnect switch on the main control board.

10. Using a ratchet and a 7/16" socket, remove the two nuts (AD) that secure the battery strap (B) to the electronics box assembly (Figure 27). Save the nuts.

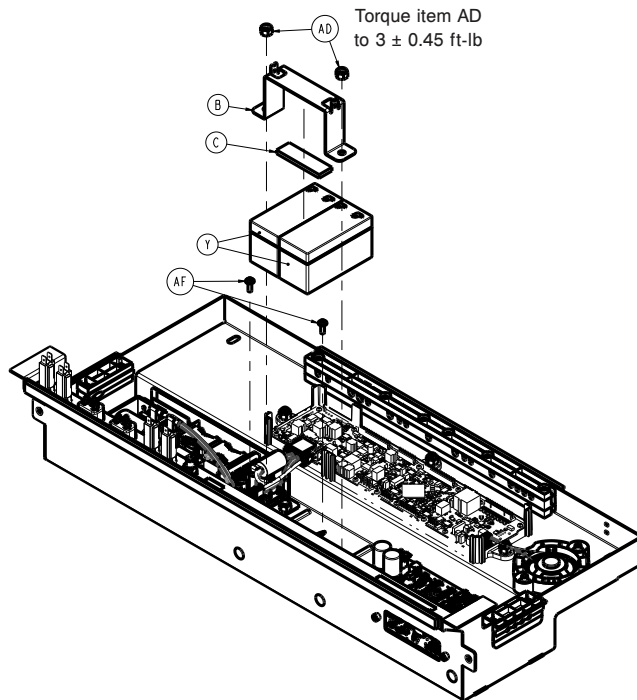


Figure 27 – Replacing the battery

11. Remove the battery strap and set aside.

12. Remove the batteries.

13. Reverse steps to reinstall.

14. Enter the service menu to clear the main battery statistics (*Service menu* (page 21)).

4.3" display

- a. Select **Configuration**
- b. Select **Reset Statistics**
- c. Select **Main Battery**
- d. Select **Reset**

8" display

- a. Select **Reset Statistics**
- b. Select **Main Battery**
- c. Select **Reset**

15. Unplug the product from the wall.

16. Turn off the battery disconnect switch to complete a full power cycle on the product.

17. Plug the product into the wall outlet. Turn on the battery disconnect switch to turn the product on.

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

Power supply replacement

Tools required:

- T25 Torx driver

- T30 Torx driver
- Ratchet
- 7/16" socket
- 1/2" combination wrench

Procedure:

1. Push down on the brake pedal to apply the brake.
2. Raise the product to the highest height position.
3. Raise the Fowler to the full up position.
4. Unplug the product from the wall.
5. Turn off the battery disconnect switch to turn the product off.
6. Using a T25 Torx driver, remove the two screws (BJ) that secure the litter electronics box cover (E) to the electronics box assembly (Figure 26). Save the screws.
7. Using a T30 Torx driver, remove the two screws (AN) that secure the litter electronics box cover (E) to the electronics box assembly (Figure 26). Save the screws and cover.
8. Unplug all the power supply brown and blue wire circuit breakers.
9. Unplug the black and red quick connectors from the MCU and the battery power On/Off switch.
10. Using a 1/2" combination wrench, remove the nut and star washer that secure the green and yellow ground wire from the power supply to the litter ground post.
11. Using a ratchet and a 7/16" socket, remove the two nuts (AD) that secure the power supply assembly to the electrical enclosure (Figure 28). Save the nuts.
12. Lift the grommet up that secures the 120VAC outlet cable to the electronics box assembly.

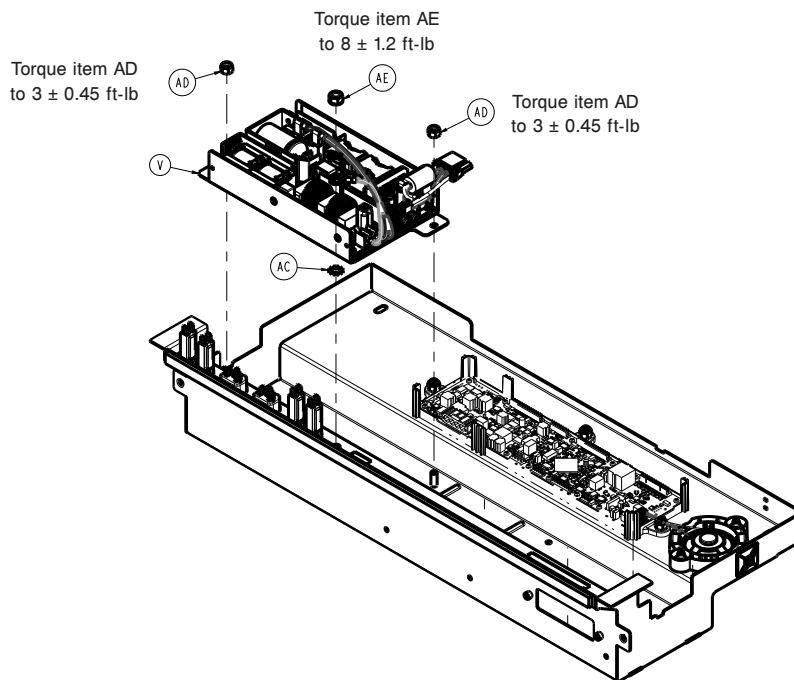


Figure 28 – Replacing the power supply

13. Reverse steps to reinstall.
14. Plug the product into the wall outlet. Turn on the battery disconnect switch to turn the product on.
15. Verify proper operation before you return the product to service.

Main control board replacement

Tools required:

- T25 Torx driver
- T30 Torx driver
- Ratchet
- 7/16" socket
- ESD system

Procedure:

1. Push down on the brake pedal to apply the brake.
2. Raise the product to the highest height position.
3. Raise the Fowler to the full up position.
4. Record all four loadcell calibrations from the **Confirm Scale Calibration** screen on the footboard. Save all calibration information to input after you install the main control board.
5. Unplug the product from the wall.
6. Turn off the battery disconnect switch to turn the product off.
7. Using a T25 Torx driver, remove the two screws (BJ) that secure the litter electronics box cover (E) to the electronics box assembly (Figure 26). Save the screws.
8. Using a T30 Torx driver, remove the two screws (AN) that secure the litter electronics box cover (E) to the electronics box assembly (Figure 26). Save the screws and cover.

CAUTION

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

9. Unplug all the cables from the main control board.

Note - Note all cable locations before you unplug the cables.

10. Using a ratchet and a 7/16" socket, remove the three nuts (AD) that secure the main control board to the electronics box assembly (Figure 29). Save the nuts.

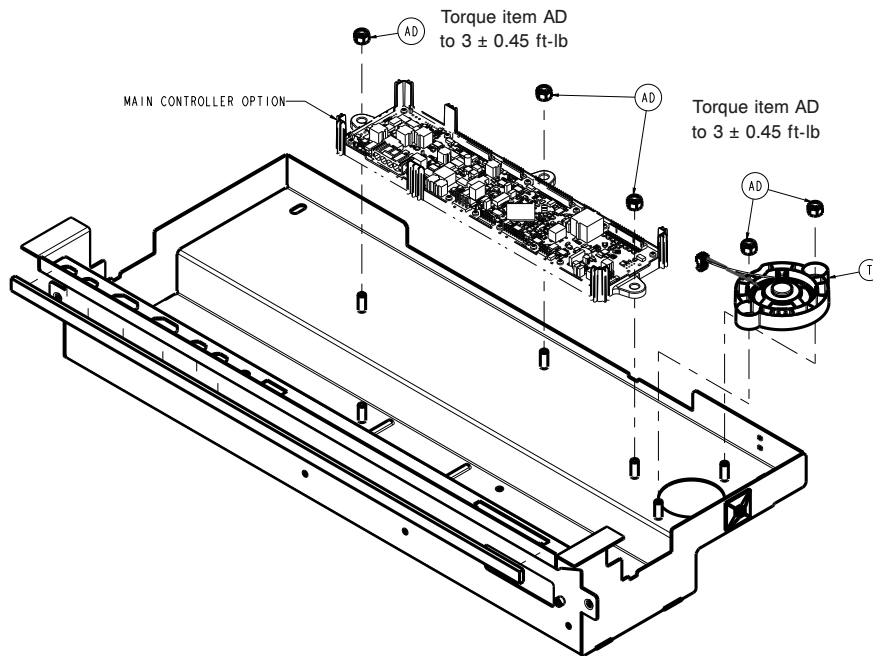


Figure 29 – Replacing the main control board

11. Remove the main control board.
12. Reverse steps to reinstall.
13. Follow the footboard screens for product configuration and calibration.
14. Unplug the product from the wall.
15. Turn off the battery disconnect switch to complete a full power cycle on the product.
16. Verify proper operation before you return the product to service.

Room interface board (RIB), basic/advanced replacement

Tools required:

- T25 Torx driver
- T30 Torx driver
- Needle nose pliers
- Ratchet
- 7/16" socket
- Wire cutters
- ESD system

Procedure:

1. Push down on the brake pedal to apply the brake.
2. Raise the product to the highest height position.
3. Raise the Fowler to the full up position.
4. Unplug the product from the wall.
5. Turn off the battery disconnect switch to turn the product off.
6. Using a T25 Torx driver, remove the two screws (BJ) that secure the litter electronics box cover (E) to the electronics box assembly (Figure 26). Save the screws.

7. Using a T30 Torx driver, remove the two screws (AN) that secure the litter electronics box cover (E) to the electronics box assembly (Figure 26). Save the screws and cover.
8. Using a ratchet and a 7/16" socket, remove the two nuts (AD) that secure the battery strap (B) to the electronics box assembly (Figure 27). Save the nuts.
9. Using wire cutters, cut the cable tie that secures the power cable to the disconnect switch on the main control board.
10. Remove and save the battery strap.
11. Remove and save the batteries.

CAUTION

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

12. Unplug all the cables from the room interface board.

Note - Note all cable locations before you unplug the cables.

13. Using needle nose pliers, unclip the eight locking standoffs that secure the room interface board (B) to the electronics box assembly (Figure 30).

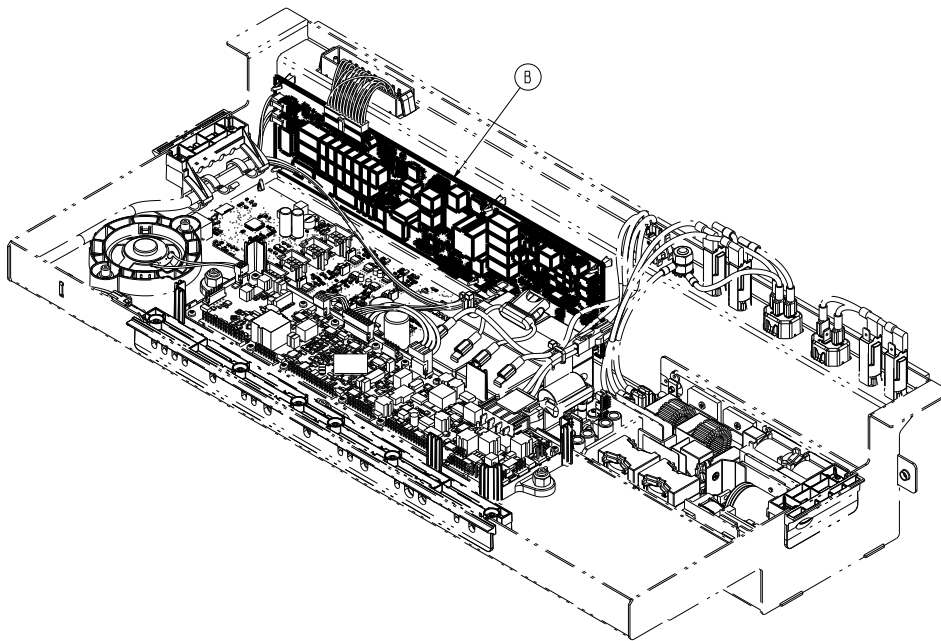


Figure 30 – Replacing the room interface board

14. Remove the room interface board.

Note - Match the nurse call dip-switch configuration from the old board to the new board.

15. Reverse steps to reinstall.
16. Configure the new room interface board on the maintenance screen for headwall configuration.
17. Unplug the product from the wall.
18. Turn off the battery disconnect switch to complete a full power cycle on the product.
19. Verify proper operation before you return the product to service.

Motion controller board replacement

Tools required:

- T25 Torx driver

- T30 Torx driver
- Needle nose pliers
- ESD system

Procedure:

1. Push down on the brake pedal to apply the brake.
2. Raise the product to the highest height position.
3. Raise the Fowler to the full up position.
4. Unplug the product from the wall.
5. Turn off the battery disconnect switch to turn the product off.
6. Using a T25 Torx driver, remove the two screws (BJ) that secure the litter electronics box cover (E) to the electronics box assembly (Figure 26). Save the screws.
7. Using a T30 Torx driver, remove the two screws (AN) that secure the litter electronics box cover (E) to the electronics box assembly (Figure 26). Save the screws and cover.

CAUTION

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

8. Note all cable locations, then unplug all cables from the motion controller board (U) (Figure 31).
9. Using needle nose pliers, unclip the six locking standoffs (AB) that secure the motion controller board (U) to the electronics box assembly (Figure 31).

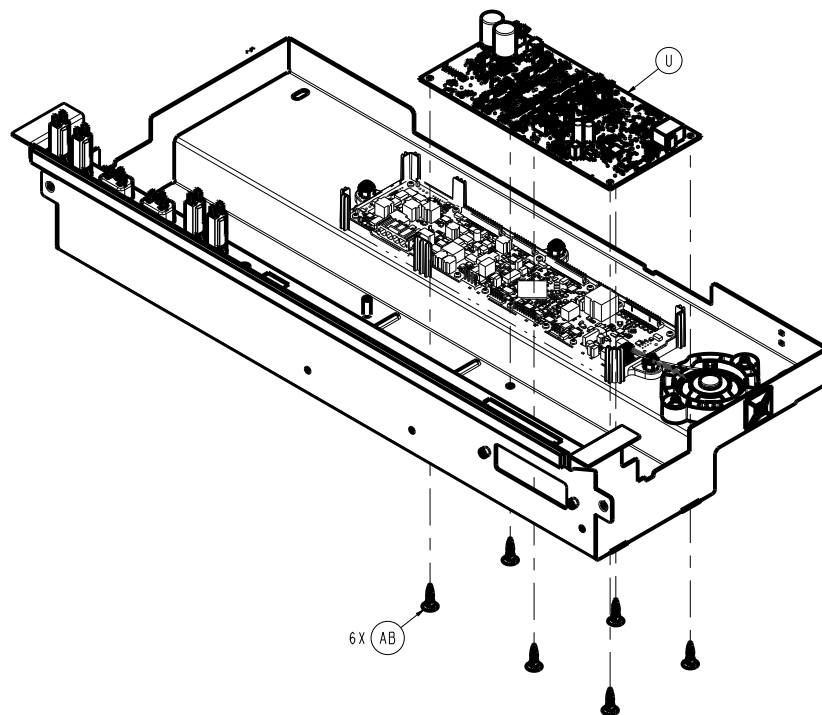


Figure 31 – Replacing the motion controller board

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

Electric brake control board option replacement

Tools required:

- T10 Torx driver
- Ratchet
- 1/2" socket
- Wire cutters
- ESD system

Procedure:

1. Push down on the brake pedal to apply the brake.
2. Raise the product to the highest height position.
3. Unplug the product from the wall.
4. Turn off the battery disconnect switch to turn the product off.
5. Remove the four clips (V) that secure the head end base cover (D) to the base frame (Figure 12). Remove and save the head end base cover. Save the clips.
6. Using a T10 Torx driver, remove the four screws (F) that secure the brake control board top enclosure (D) to the brake cam enclosure assembly (Figure 32). Remove and save the top enclosure. Save the screws.

CAUTION

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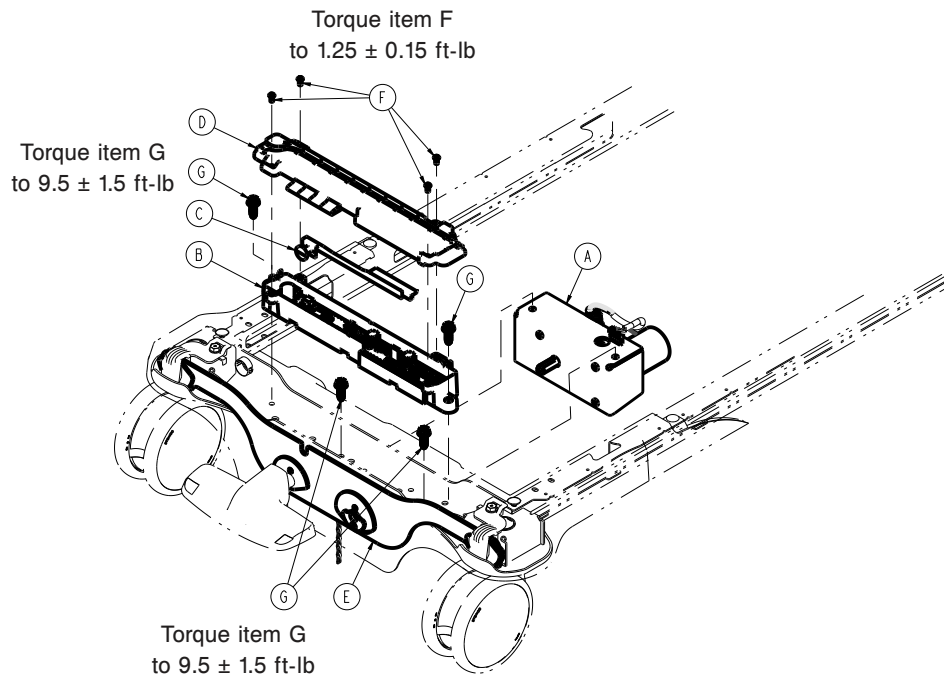


Figure 32 – Electric brakes option

7. Note all cable locations, then unplug all cables from the electric brake control board.
8. Using wire cutters, cut the cable tie that secures the brake motor and the main brake control cable to the brake cam enclosure assembly. Discard cut cable ties.
9. Remove and save the electric brake switch actuator.

10. Using a ratchet and 1/2" socket, remove the two bolts (G) that secure the brake cam enclosure assembly to the base frame (Figure 32). Save the bolts.
11. Reverse steps to reinstall.
12. Verify proper operation before you return the product to service.

Electric brake motor option replacement

Tools required:

- T10 Torx driver
- Ratchet
- 1/2" socket
- Wire cutters

Procedure:

1. Push down on the brake pedal to apply the brake.
2. Raise the product to the highest height position.
3. Unplug the product from the wall.
4. Turn off the battery disconnect switch to turn the product off.
5. Remove the four clips (V) that secure the head end base cover (D) to the base frame (Figure 12). Remove and save the head end base cover. Save the clips.
6. Using a T10 Torx driver, remove the four screws (F) that secure the brake control board top enclosure (D) to the brake cam enclosure assembly (Figure 32). Remove and save the top enclosure. Save the screws.
7. Using wire cutters, cut the cable tie that secures the brake motor cable to the brake cam enclosure assembly. Discard the cut cable ties.
8. Unplug the motor cable from the brake control board.
9. Remove the electric brake cam.
10. Using a ratchet and 1/2" socket, remove the two bolts (G) that secure the brake cam enclosure assembly (B) to the base frame (Figure 32). Lift up out of the way.
11. Using a ratchet and 1/2" socket, remove the two bolts (G) that secure the brake motor assembly (A) to the base frame (Figure 32). Pull the motor assembly toward the foot end to remove.

Note - The motor shaft is keyed to the brake linkage.

12. Reverse steps to reinstall.
13. Enter the service menu to clear the brake motor statistics (*Service menu* (page 21)).

4.3" display

- a. Select **Configuration**
- b. Select **Reset Statistics**
- c. Select **Brake Motor**
- d. Select **Reset**

8" display

- a. Select **Reset Statistics**
- b. Select **Brake Motor**
- c. Select **Reset**

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

Display assembly replacement, 4.3" and 8"

Tools required:

- Pick

- T25 Torx driver
- ESD system

Procedure:

1. Push down on the brake pedal to apply the brake.
2. Raise the product to the highest height position.
3. Unplug the product from the wall.
4. Turn off the battery disconnect switch to turn the product off.
5. Using a pick, remove the two screw covers (A) from the back side of the footboard display housing (Figure 33). Discard the screw covers.

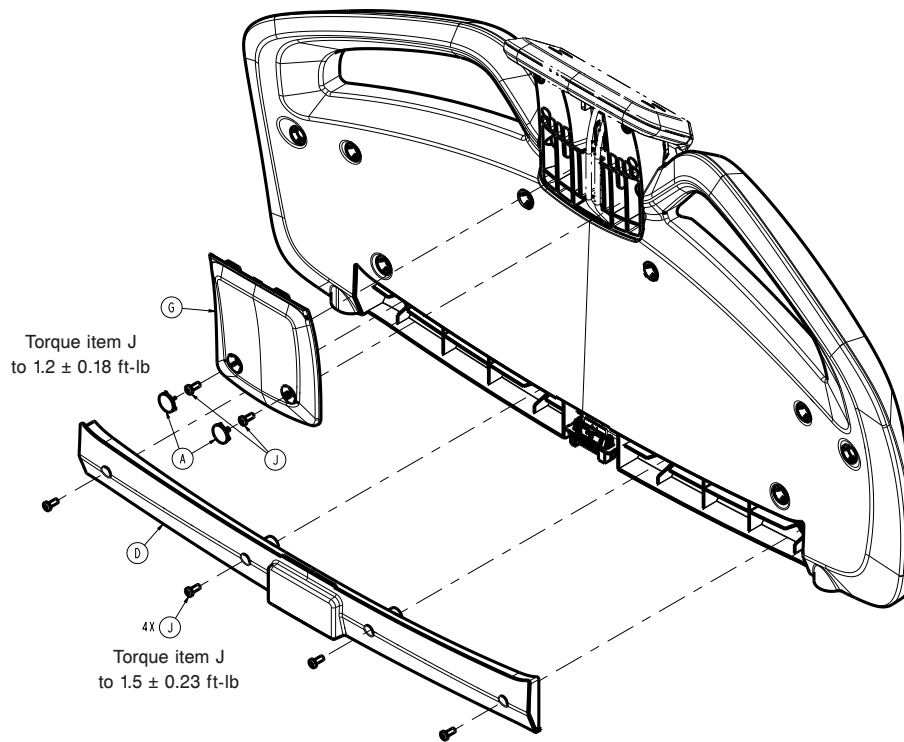


Figure 33 – Footboard housing

6. Using a T25 Torx driver, remove the two screws (J) that secure the display housing cover (G) to the footboard (Figure 33). Remove the display housing cover. Save the screws and display housing cover.
7. Using a T25 Torx driver, remove the four screws (J) that secure the display housing to the footboard (Figure 34). Let the display housing hang. Save the screws.

CAUTION

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

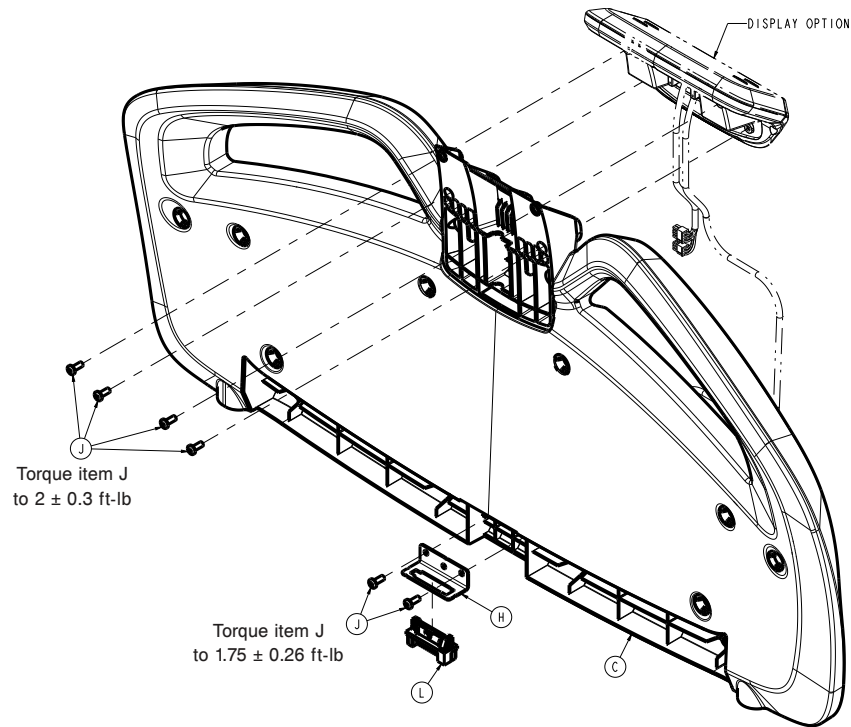


Figure 34 – Footboard housing

8. Unplug the cables from the display board. Discard the display board.
9. Reverse steps to reinstall.
10. Verify proper operation before you return the product to service.

Wireless module option replacement

Tools required:

- Pick
- T20 Torx driver
- T27 Torx driver
- ESD system

Procedure:

1. Push down on the brake pedal to apply the brake.
2. Raise the product to the highest height position.
3. Unplug the product from the wall.
4. Turn off the battery disconnect switch to turn the product off.
5. Using a pick, remove the six screw covers (A) from the back side of the footboard (Figure 35). Discard the screw covers.

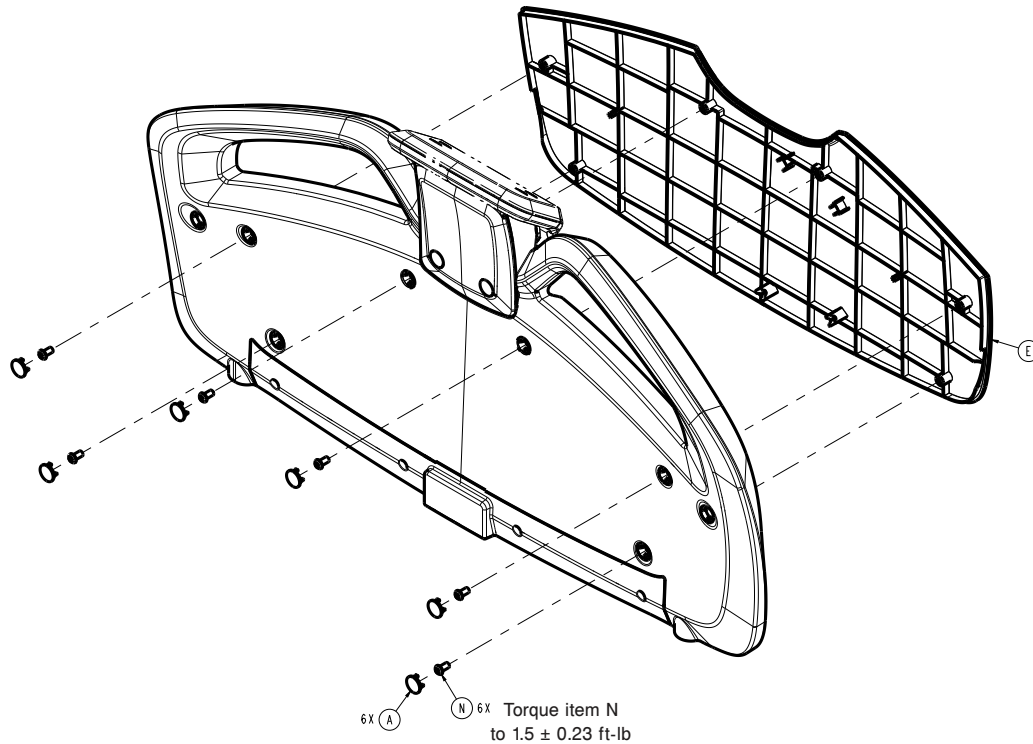


Figure 35 – Footboard housing

6. Using a T27 Torx driver, remove the six screws (N) that secure the front footboard cover (E) to the footboard (Figure 35). Remove the front footboard cover.
7. Using a T20 Torx driver, remove the four screws (D) that secure the wireless module (C) to the footboard (Figure 36). Let the wireless module hang.

CAUTION

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

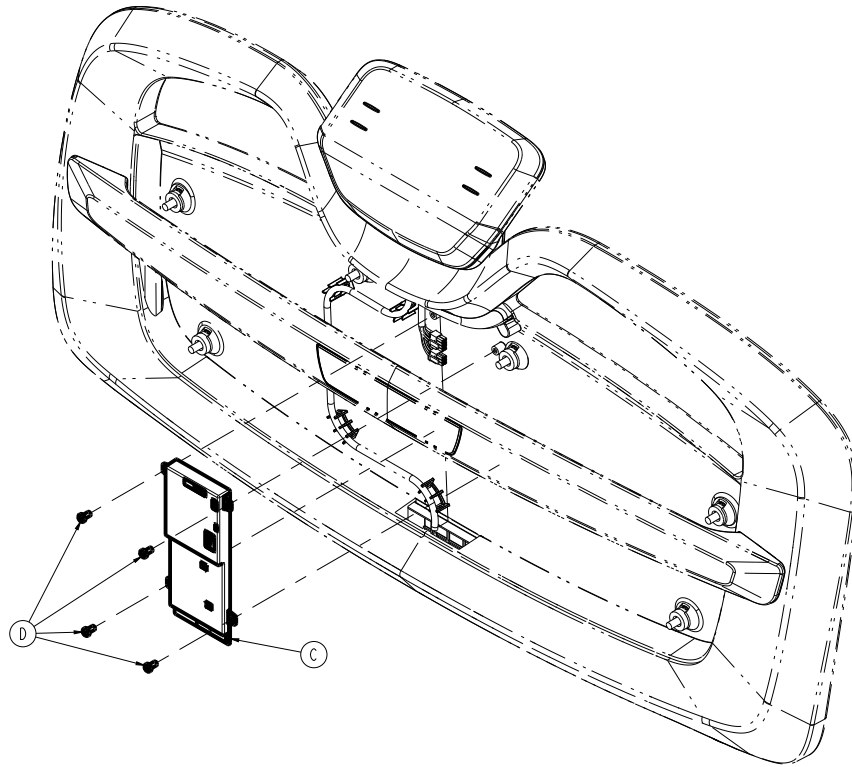


Figure 36 – Replacing the wireless module

8. Unplug the cables from the wireless module. Discard the module.
9. Reverse steps to reinstall.

Note - The wireless module will need to be programmed or the footboard display will show a wireless error. You must also provide the footboard, product serial number, and wireless module serial number to the wireless install team, so the team can update the hospital's server to see the new wireless module.

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

Footboard connector, litter replacement

Tools required:

- Needle nose pliers
- T15 Torx driver
- T30 Torx driver
- Slotted screwdriver
- Ratchet
- 3" extension
- Tape measure

Procedure:

1. Push down on the brake pedal to apply the brake.
2. Raise product to the highest height position.
3. Unplug the product from the wall.
4. Turn off the battery disconnect switch to turn the product off.
5. Extend the bed extender to the out and locked position.

6. Using needle nose pliers, remove the two rive clips (BL) and clevis pins (BK) that secure the bed extender pan (AL) to the foot frame (Figure 15).
7. Using a tape measure, slide the bed extender pan toward the head end of the product 3".

CAUTION - Do not overextend the bed extender, the ground wire is still attached and damage could occur.

8. Using a T15 Torx driver, remove the six outer screws (R) that secure the front cover (L) to the rear cover (M) (Figure 16). Save the screws.
9. Using a T30 Torx driver, remove the six screws (AB) that secure the front cover to the rear cover (M) (Figure 16). Save the screws.
10. Using a slotted screwdriver, push down on the four cover locks near the top of the cover to remove and save the rear cover.
11. Using a T30 Torx driver with a ratchet and 3" extension, remove the four screws (AB) that secure the front cover to the extender frame (Figure 16). Remove and save the front cover.
12. Unclip the cable from the blind mate connector (V) (Figure 37).

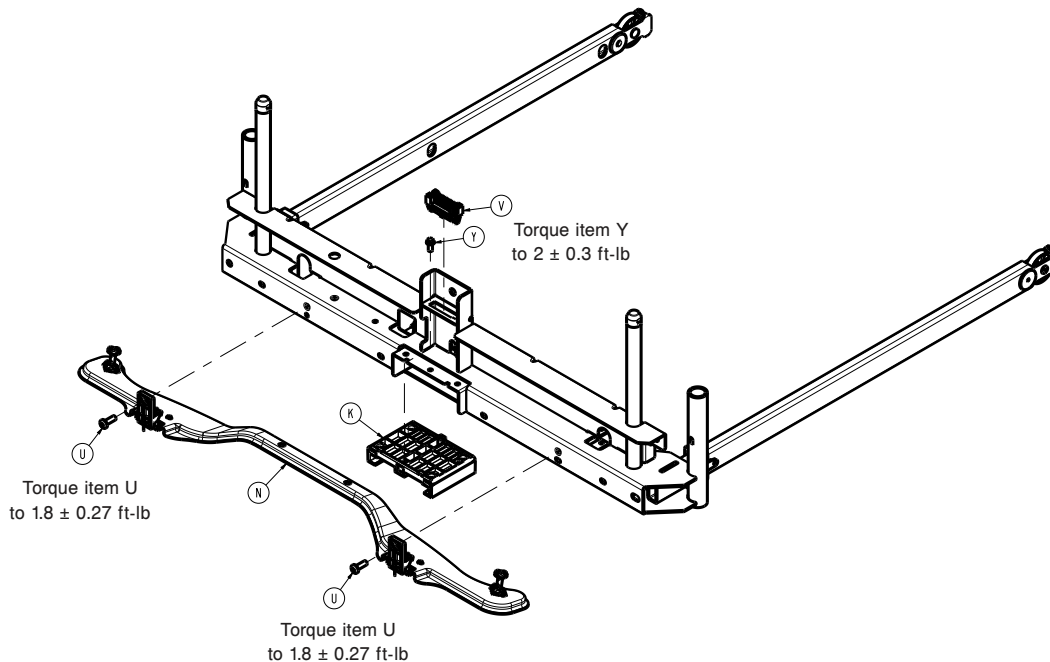


Figure 37 – Replacing the footboard litter connector

13. Squeeze the left and right blind mate connector (V) locking tabs to release the connector from the foot end frame (Figure 37).
14. Reverse steps to reinstall.

Note - When you reinstall, position the IV pole grommets into the foot end cover.

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

Fowler weldment replacement

A minimum of two operators is recommended for this task.

Tools required:

- T25 Torx driver
- T27 Torx driver
- T30 Torx driver

- Wire cutters
- Needle nose pliers
- Marker

Procedure:

1. Push down on the brake pedal to apply the brake.
2. Raise the product to the highest height position.
3. Raise the Fowler to the highest position.
4. Raise the head end siderails to the highest locked position.
5. Remove the headboard.
6. Unplug the power cord from the wall.
7. Turn off the battery disconnect switch.
8. Fold the mattress toward the foot end so the mattress does not touch the Fowler weldment.

Note - If the mattress is powered, pull the CPR handle to deflate the mattress.

9. Fold the litter mid-section forward so the litter mid-section does not touch the Fowler weldment.
10. Using a T25 Torx driver, remove the two screws (BJ) that secure the electrical cover (E) to the litter (Figure 18). Save the screws.
11. Using a T27 Torx driver, remove the two screws (AN) and washers (BG) that secure the electrical cover (E) to the litter. Remove the cover (Figure 18). Save the screws, washers, and cover.
12. Using a marker, mark on left and right siderail cables where the cables are attached to the Fowler weldment with a cable tie for installation reference. There are three cable tie locations on each side. Remove and discard the cut cable ties.
13. Using wire cutters, cut the six cable ties that secure the siderail and pendant port cables to the Fowler weldment. Discard the cut cable ties.

Note - Make sure you do not damage the cable when you cut the cable ties. When you install the new Fowler weldment, install the supplied cables ties. Trim and discard the excess cable ties.

14. Pull each siderail cable through the upper cable hole to gain access to the siderail cable connector. Unplug the connector.
15. Remove and save the hand pendant.
16. Using a T30 Torx driver, remove the two screws (F) that secure the pendant port/bracket (E) to the Fowler weldment and discard (Figure 38).

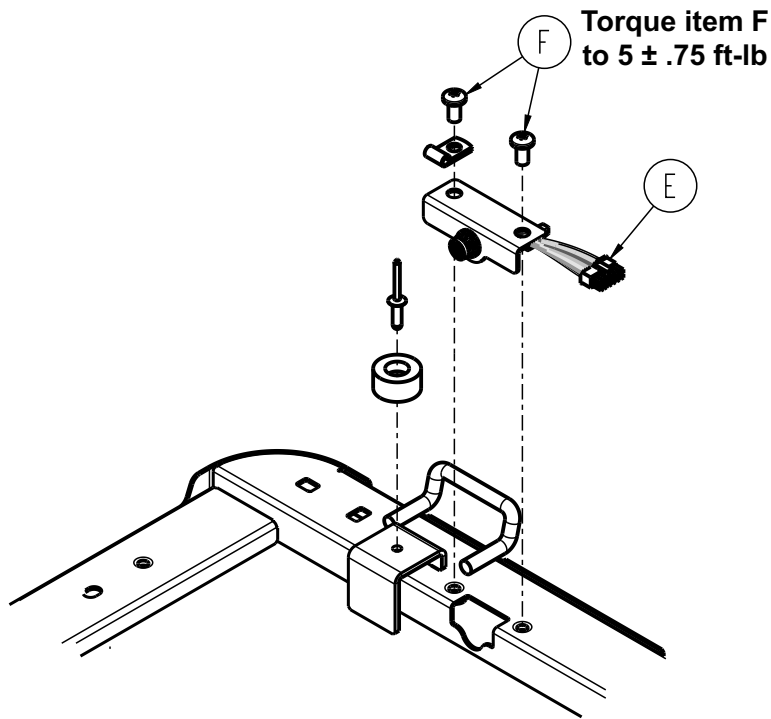


Figure 38 – Removing the pendant port/bracket screws

17. Pull on the hand pendant port/bracket to gain access to the cable connector. Unplug the connector and discard.
18. Pull the litter side of the siderail cable and hand pendant port cable to remove the cables from the Fowler weldment.
19. Using a T30 Torx driver, loosen the four screws (H) that secure the siderail assembly to the Fowler weldment (Figure 39). Repeat on the opposite side.

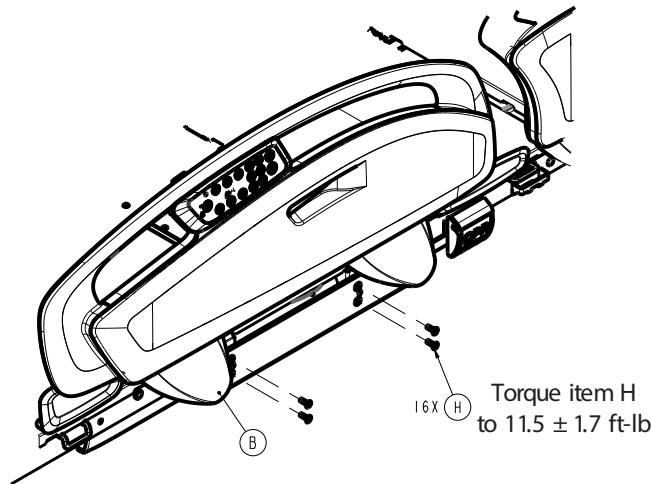


Figure 39 – Removing the assembly

20. Using a T30 Torx driver, and help from someone to support the siderail assembly, remove the foot end (bottom) two screws. Discard the screws.

Note - The siderail assembly is heavy, use caution.

21. Remove the head end (top) two screws. Discard the screws.
22. Remove the siderail assembly.
23. Repeat steps 20-22 on the opposite side.

24. Using needle nose pliers, while you support the Fowler weldment, remove the upper Fowler actuator link rue clip (Figure 40).

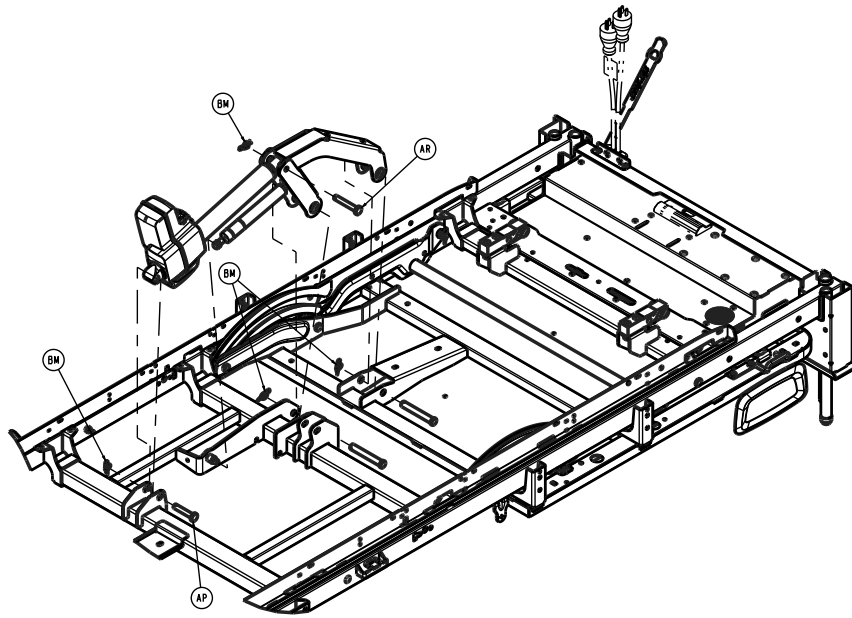


Figure 40 – Removing the upper Fowler actuator link rue clip

25. While you support the Fowler weldment, use needle nose pliers to remove the left and right side upper Fowler link rue clips (Figure 41).

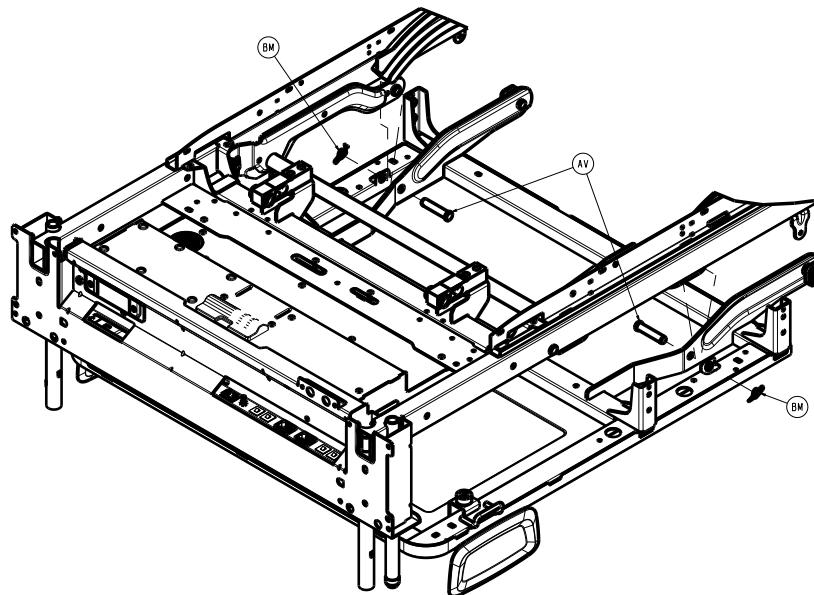


Figure 41 – Removing the left and right upper Fowler link rue clips

26. While you continue to support the Fowler weldment, remove the Fowler actuator link clevis pin (Figure 40).

Note - Support the Fowler weldment to avoid the risk of injury or product damage.

27. While you continue to support the Fowler weldment, push up on the Fowler to relieve some of the pressure. Remove the left and right Fowler link clevis pins (Figure 41).

Note - Support the Fowler weldment to avoid the risk of injury or product damage.

28. Grasp the Fowler weldment on both sides and pull the Fowler weldment toward the head to remove it from the litter frame. Discard the Fowler weldment.

Note - The Fowler weldment is heavy, use caution.

29. Reverse the steps to install the new Fowler weldment assembly.

Fowler actuator replacement

Tools required:

- Needle nose pliers
- Small slotted screwdriver

Procedure:

1. Push down on the brake pedal to apply the brake.
2. Raise the product to the highest height position.
3. Raise the Gatch to the highest height position.
4. Unplug the product from the wall.
5. Turn off the battery disconnect switch to turn the product off.
6. Using a small slotted screwdriver, open the CPR cable door on the Fowler actuator.
7. Lift each CPR cable end out of the actuator.
8. Pull the CPR cable to remove the cable from the Fowler actuator.
9. Pull the CPR release so that the Fowler is flat and the Fowler actuator clevis pins move.
10. Using a small slotted screwdriver, remove the actuator cable retainer and unplug the cable from the actuator.
11. Using needle nose pliers, remove the two ruer clips (BM) from the two clevis pins that secure the Fowler actuator (T) to the litter and the Fowler frame (Figure 42). Save the ruer clips.

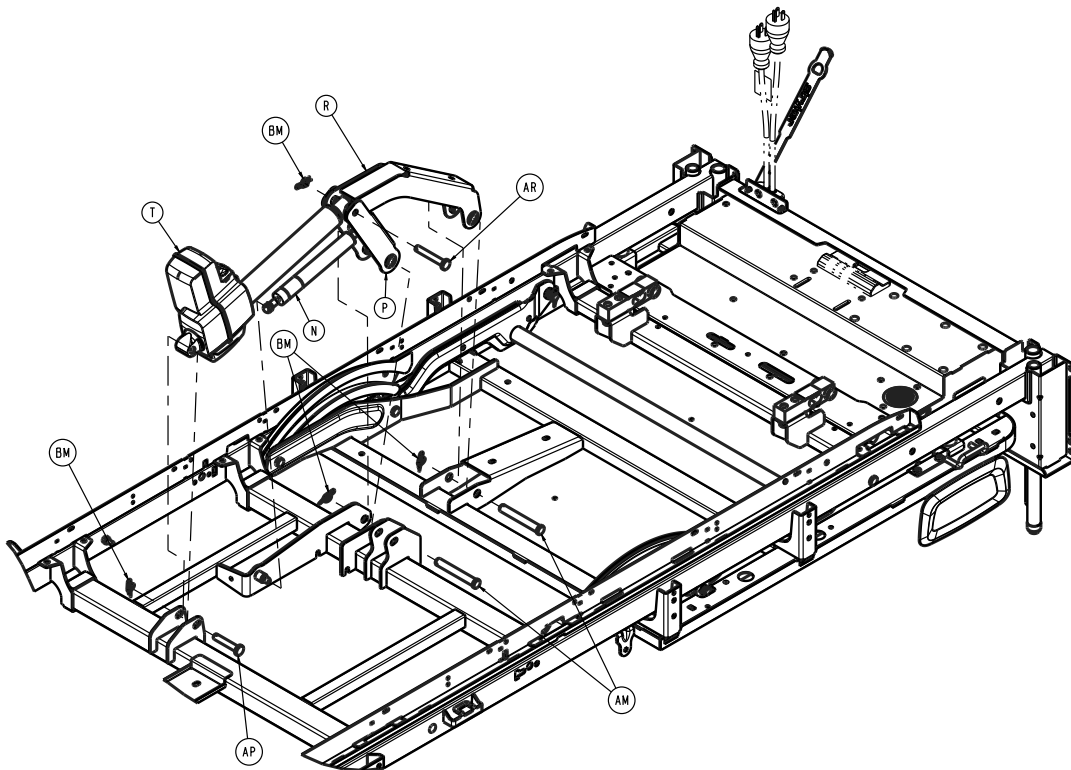


Figure 42 – Replacing the Fowler actuator

12. Support the actuator. Remove and save the two clevis pins (AP, AR) (Figure 42).

13. Using a small slotted screwdriver, open the actuator CPR access door.
14. Using needle nose pliers, remove the two CPR cables from the actuator mechanism. Remove the CPR cables from the actuator.
15. Reverse steps to reinstall.
16. Enter the service menu to clear the actuator statistics (*Service menu* (page 21)).

4.3" display

- a. Select **Configuration**.
- b. Select **Calibration**.
- c. Select **Motion**.
- d. Select the motor that was replaced. Press **Reset**.
- e. Press **Reset and Continue** on the confirmation screen.
- f. Read the warning message. If the patient is not present, press **Agree**.

8" display

- a. Select **Calibration**.
- b. Select **Motion**.
- c. Select the motor that was replaced. Press **Reset**.
- d. Press **Reset and Continue** on the confirmation screen.
- e. Read the warning message. If the patient is not present, press **Agree**.

17. Unplug the product from the wall outlet.
18. Turn off the battery disconnect switch to complete a full power cycle on the product.
19. Plug the product into the wall outlet. Turn on the battery disconnect switch to turn the product on.
20. Calibrate angles, see *Angle calibration* (page 21).
21. Verify proper operation before you return the product to service.

Gatch actuator replacement

Tools required:

- Needle nose pliers
- Small slotted screwdriver

Procedure:

1. Push down on the brake pedal to apply the brake.
2. Raise the product to the highest height position.
3. Lower the Gatch to its lowest position. If the Gatch will not lower, you must support the Gatch section.
4. Unplug the product from the wall.
5. Turn off the battery disconnect switch to turn the product off.
6. Using needle nose pliers, remove the two rue clips (BM) from the two clevis pins that secure the Gatch actuator (AB) to the litter and the Gatch frame (Figure 43). Save the rue clips.

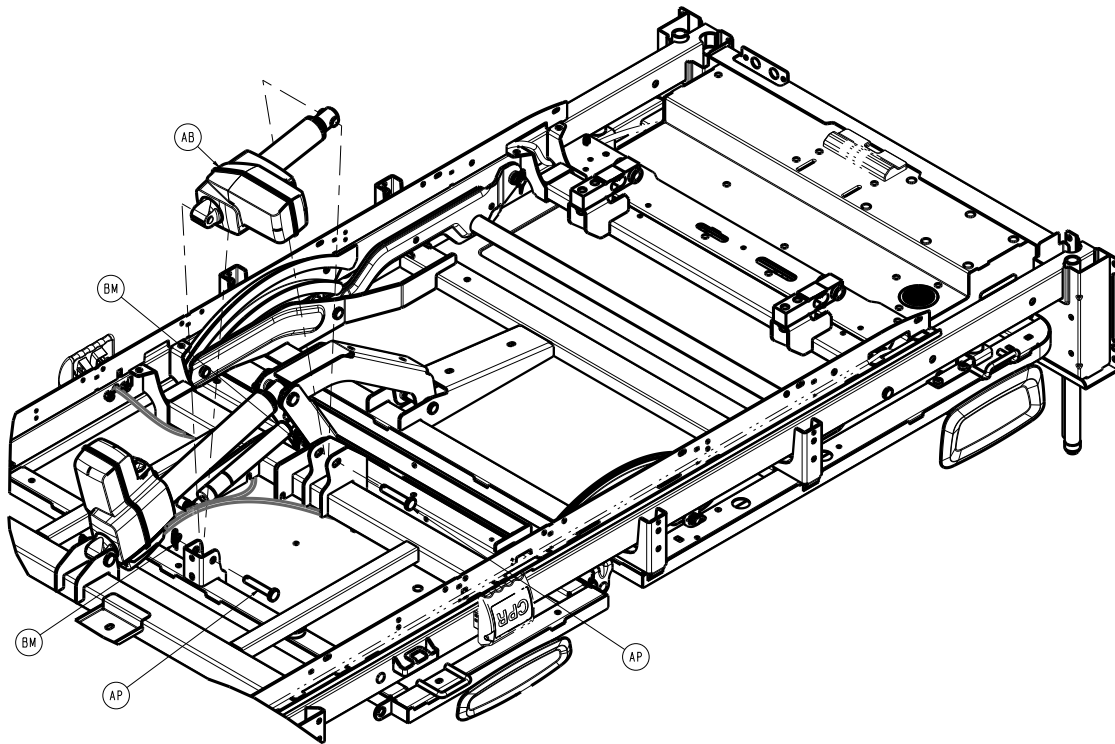


Figure 43 – Replacing the Gatch actuator

7. Support the actuator. Remove and save the two clevis pins (AP) (Figure 43).
8. Using a small slotted screwdriver, remove the actuator cable retainer. Unplug the cable from the actuator.
9. Reverse steps to reinstall.
10. Enter the service menu to clear the actuator statistics (*Service menu* (page 21)).

4.3" display

- a. Select **Configuration**.
- b. Select **Calibration**.
- c. Select **Motion**.
- d. Select the motor that was replaced. Press **Reset**.
- e. Press **Reset and Continue** on the confirmation screen.
- f. Read the warning message. If the patient is not present, press **Agree**.

8" display

- a. Select **Calibration**.
- b. Select **Motion**.
- c. Select the motor that was replaced. Press **Reset**.
- d. Press **Reset and Continue** on the confirmation screen.
- e. Read the warning message. If the patient is not present, press **Agree**.

11. Unplug the product from the wall.
12. Turn off the battery disconnect switch to complete a full power cycle on the product.
13. Plug the product into the wall outlet. Turn on the battery disconnect switch to turn the product on.
14. Calibrate angles, see *Angle calibration* (page 21).
15. Verify proper operation before you return the product to service.

Lift actuator, head and foot end replacement

Tools required:

- T20 Torx driver
- Slotted screwdriver
- Diagonal pliers
- (2) #1 Phillips screwdriver
- (2) Ratchet
- (2) T40 Torx driver

Procedure:

1. Push down on the brake pedal to apply the brake.
2. Raise product to the highest height position, if possible. If not, raise the product high enough to reach the lift mechanism slides past the base frame support holes.
3. On the end you plan to replace, raise both siderails to the up and locked position.
4. Using a T20 Torx driver, remove the four screws (AJ) that secure the lift arm bottom cover (AC) and lift arm top cover (AB) together (Figure 44). Remove and save the covers. Save the screws.

Note - Pry the outer cover top hooks off of the lift mechanism to remove the cover.

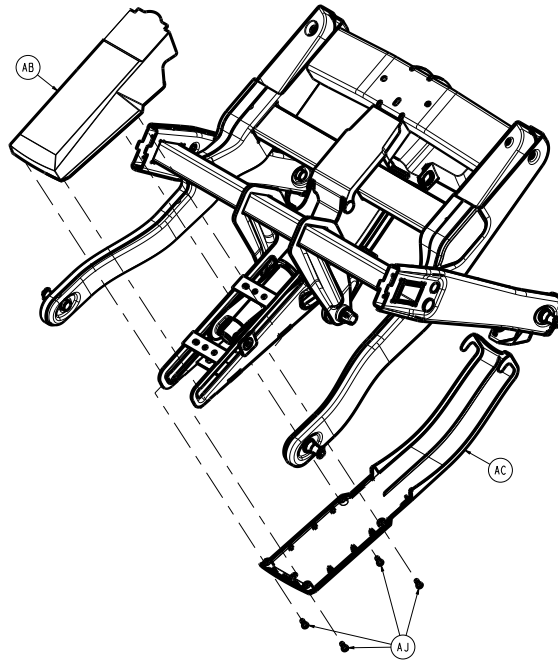


Figure 44 – Removing the lift covers

5. Using a slotted screwdriver and diagonal pliers, remove the retainers (C) from the left and right center base covers (B) (Figure 11). Discard the retainers. Remove and save the covers.
6. Using two #1 Phillips screwdrivers, insert the screwdrivers into the base frame support holes from the outside, closest to the lift mechanism on both sides, to support the lift mechanism.
7. Lower the lift down until the screwdrivers support the lift mechanism, if possible. The lift actuator should be loose.

CAUTION - Do not drive the actuator past the support of the screwdrivers to avoid the risk of product damage.

Note - Note potential pinch points as you support the product.

8. Unplug the product from the wall.

9. Turn off the battery disconnect switch to turn the product off.
10. Using a slotted screwdriver, remove the actuator cable retainer and unplug the cable from the lift actuator.
11. Using two ratchets and a T40 Torx driver, remove the two screws that secure the bottom of the lift actuator to the lift mechanism.
12. Using a ratchet and two T40 Torx drivers, remove the screw (AH) and lift foot pin (H) that secure the top of the actuator to the lift mechanism (Figure 45). Hold the lift foot pin in while you loosen the screw.

Note - The screw is keyed with the lift mechanism.

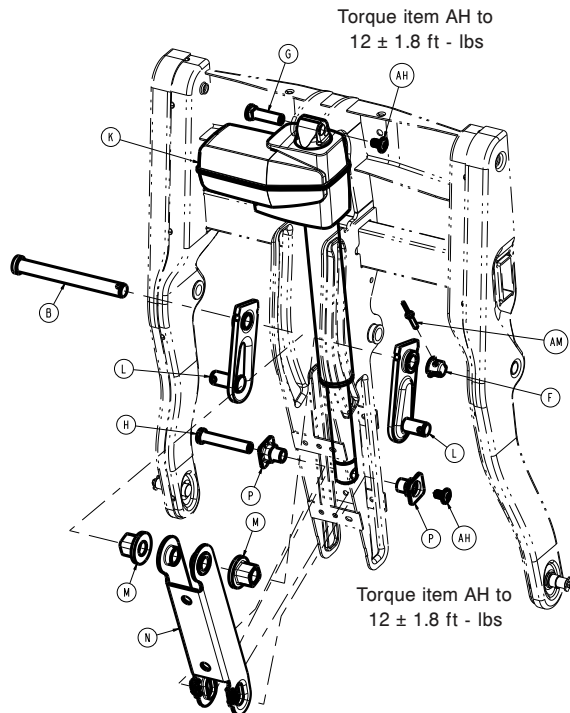


Figure 45 – Replacing the lift actuator

13. Remove and discard the lift actuator.
14. Reverse steps to reinstall.
15. Enter the service menu to clear the actuator statistics (*Service menu* (page 21)).

4.3" display

- a. Select **Configuration**.
- b. Select **Calibration**.
- c. Select **Motion**.
- d. Select the motor that was replaced. Press **Reset**.
- e. Press **Reset and Continue** on the confirmation screen.
- f. Read the warning message. If the patient is not present, press **Agree**.

8" display

- a. Select **Calibration**.
- b. Select **Motion**.
- c. Select the motor that was replaced. Press **Reset**.
- d. Press **Reset and Continue** on the confirmation screen.
- e. Read the warning message. If the patient is not present, press **Agree**.

16. Unplug the product from the wall.
17. Turn off the battery disconnect switch to complete a full power cycle on the product.
18. Plug the product into the wall outlet. Turn on the battery disconnect switch to turn the product on.
19. Calibrate angles, see *Angle calibration* (page 21).

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

Load cell replacement, head end

Tools required:

- Ratchet
- 9/16" socket
- 9/16" combination wrench
- Wire cutters
- Needle nose pliers

Procedure:

1. Push down on the brake pedal to apply the brake.
2. Raise the product to the highest height position.
3. Raise the Fowler to the full up position.
4. Unplug the product from the wall.
5. Turn off the battery disconnect switch to turn the product off.
6. Using wire cutters, cut the cable tie that secures the load cell cable to the litter frame. Discard the cut cable tie.
7. Unplug the load cell (AF) (Figure 46).

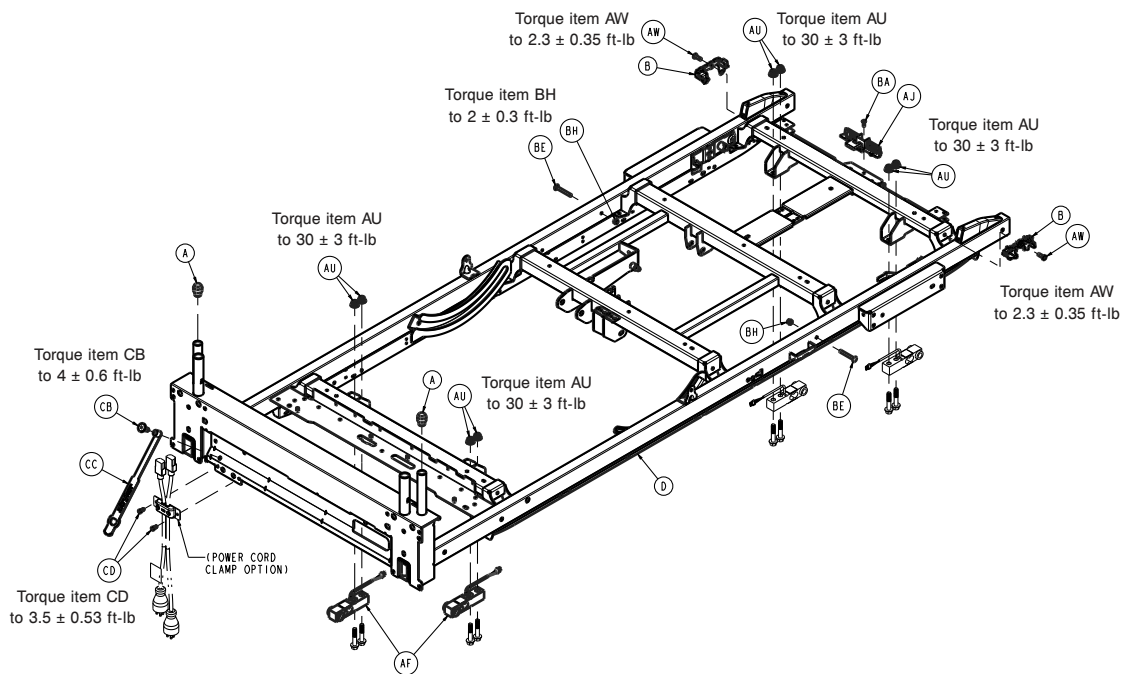


Figure 46 – Replacing the load cell

8. Using needle nose pliers, remove the rue clip (W) from the clevis pin (A) that secures the load cell to the lift mechanism (Figure 47). Save the rue clip and clevis pin.

Note

- Support the litter corner of the load cell location.
- Lower the litter until the load cell clevis pin is loose.

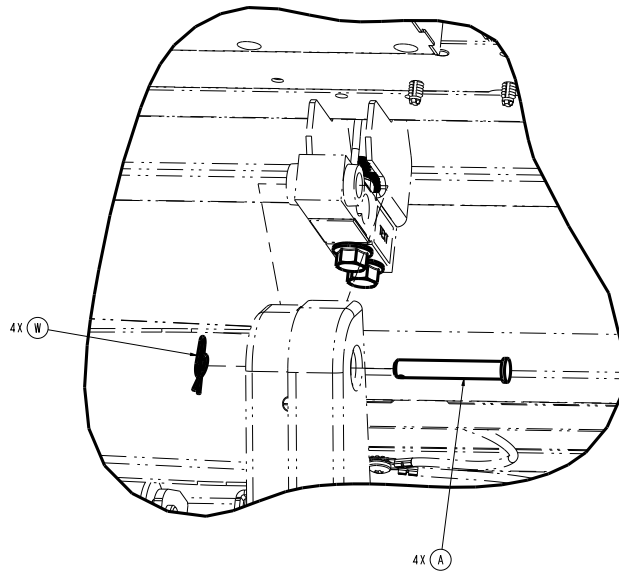


Figure 47 – Replacing the load cell

9. Remove the load cell. Using a ratchet, 9/16" socket, and a 9/16" combination wrench, remove the two bolts (P) and nuts that secure the load cell to the litter frame (Figure 48). Save the bolts and nuts.

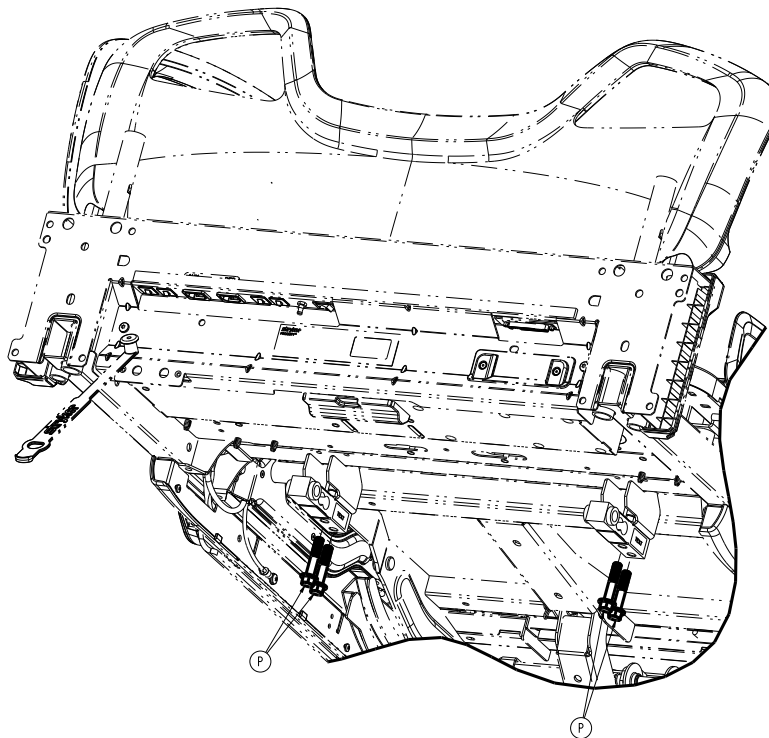


Figure 48 – Replacing the load cell

10. Reverse steps to reinstall.
11. Enter the service menu to clear the load cell statistics (*Service menu* (page 21)).

4.3" display

- a. Select **Configuration**.
- b. Select **Calibration**.
- c. Select **Scale**.
- d. Select the replaced load cell to reset the statistics.
- e. Press **Reset and Continue** on the confirmation screen.
- f. Read the warning message. If the patient is not present, press **Agree**.

8" display

- a. Select **Calibration**.
- b. Select **Scale**.
- c. Select the replaced load cell to reset the statistics.
- d. Press **Reset and Continue** on the confirmation screen.
- e. Read the warning message. If the patient is not present, press **Agree**.

12. Calibrate the scale system. See *Scale calibration* (page 21).

13. Unplug the product from the wall outlet.

14. Turn off the battery disconnect switch to complete a full power cycle on the product.

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

Load cell replacement, foot end

Tools required:

- Ratchet
- 9/16" socket
- 9/16" combination wrench
- Wire cutters
- Bungee cord or equivalent
- Needle nose pliers

Procedure:

1. Push down on the brake pedal to apply the brake.
2. Raise the product to the highest height position.
3. Raise the Gatch to the full up position. Fold the foot section toward the head end of the product.
4. Unplug the product from the wall.
5. Turn off the battery disconnect switch to turn the product off.
6. Extend the bed extender to the out and locked position. Fold the bed extender pan toward the foot end of the product.

Note - Using a bungee cord or equivalent, secure the product extender pan to the footboard.

7. Using wire cutters, cut the cable ties that secure the load cell cable to the litter frame. Discard the cut cable ties.
8. Unplug the load cell (L) (Figure 49).

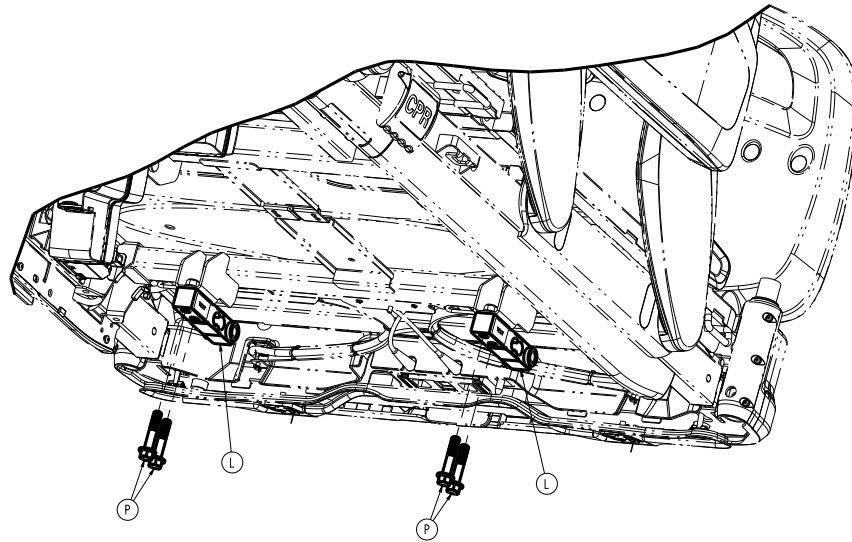


Figure 49 – Replacing the load cell

9. Using wire cutters, remove the two cable tie retainers from the frame. Discard the cable tie retainers.
10. Using needle nose pliers, remove the rue clip (W) from the clevis pin (A) that secures the load cell to the lift mechanism (Figure 47). Save the rue clip and clevis pin.

Note

- Support the litter corner of the load cell location. Lower the litter until the load cell clevis pin is loose.
- Do not use the product extender to support the corner of the litter.

11. Remove the load cell. Using a ratchet, 9/16" socket, and a 9/16" combination wrench, remove the two bolts (P) and nuts that secure the load cell (L) to the litter frame (Figure 49). Save the bolts and nuts.
12. Reverse steps to reinstall.
13. Plug the product into the wall outlet.
14. Turn on the battery disconnect switch to turn the product on.
15. Enter the service menu to clear the load cell statistics (*Service menu* (page 21)).

4.3" display

- a. Select **Configuration**.
- b. Select **Calibration**.
- c. Select **Scale**.
- d. Select the replaced load cell to reset the statistics.
- e. Press **Reset and Continue** on the confirmation screen.
- f. Read the warning message. If the patient is not present, press **Agree**.

8" display

- a. Select **Calibration**.
- b. Select **Scale**.
- c. Select the replaced load cell to reset the statistics.
- d. Press **Reset and Continue** on the confirmation screen.
- e. Read the warning message. If the patient is not present, press **Agree**.

16. Calibrate the scale system. See *Scale calibration* (page 21).
17. Unplug the product from the wall.
18. Turn off the battery disconnect switch to complete a full power cycle on the product.
19. Verify proper operation before you return the product to service.

Nurse control board replacement

Tools required:

- Pick
- T20 Torx driver
- T25 Torx driver
- 1/8" hex driver
- ESD system

Procedure:

1. Push down on the brake pedal to apply the brake.
2. Raise the product to the highest height position.
3. Raise the siderail to the up and locked position.
4. Unplug the product from the wall.
5. Turn off the battery disconnect switch to turn the product off.
6. Using a pick, remove the seven screw covers (B) from the inside of the siderail (Figure 50). Discard the screw covers.

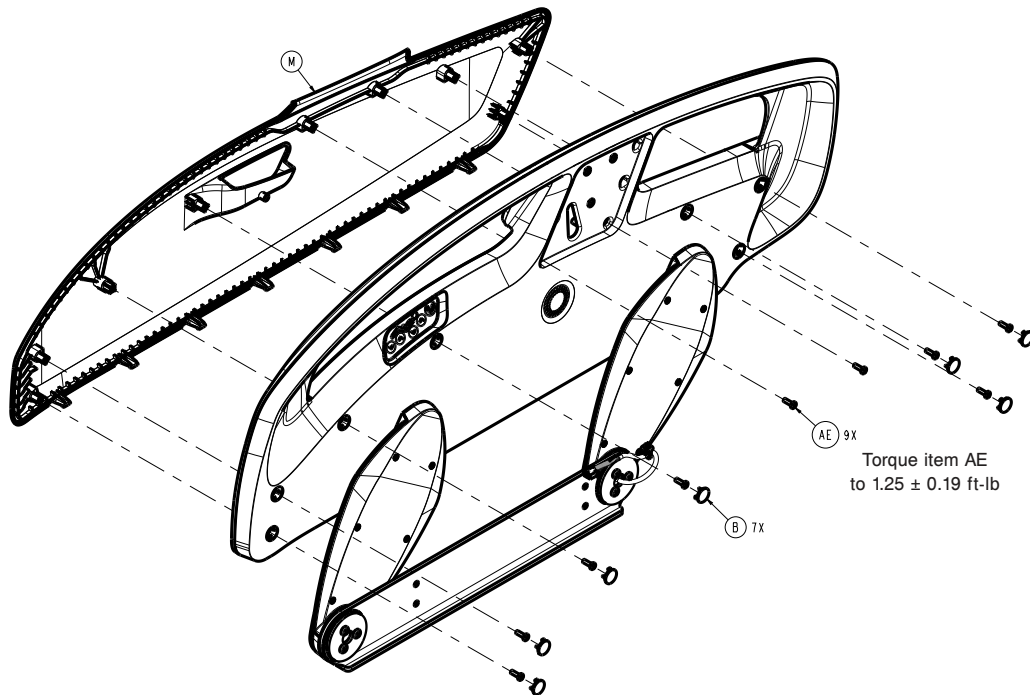


Figure 50 – Replacing the siderail control board

7. Using a pick, remove the label from the siderail in the patient belongings bracket (P) (Figure 51). Discard the label.

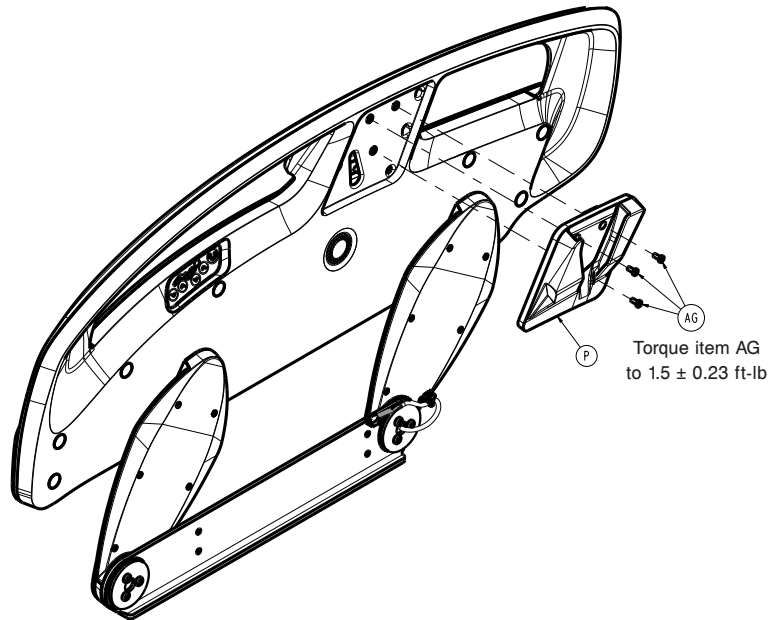


Figure 51 – Replacing the siderail control board

8. Using a 1/8" hex driver, remove the three screws (AG) that secure the patient belongings bracket (P) to the siderail hoop (Figure 51). Save the screws. Remove and save the patient belongings bracket.

Note - If on the patient left side, unplug the USB cable from the USB board to remove the patient belongings bracket.

9. Using a T25 Torx driver, remove the nine screws (AE) that secure the head cover (M) to the siderail assembly (Figure 50). Save the screws. Remove and save the outer siderail panel.
10. Using a T20 Torx driver, remove the four screws (AA) that secure the nurse control board to the siderail hoop (Figure 52). Save the screws. Allow the nurse control board to hang.

CAUTION

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

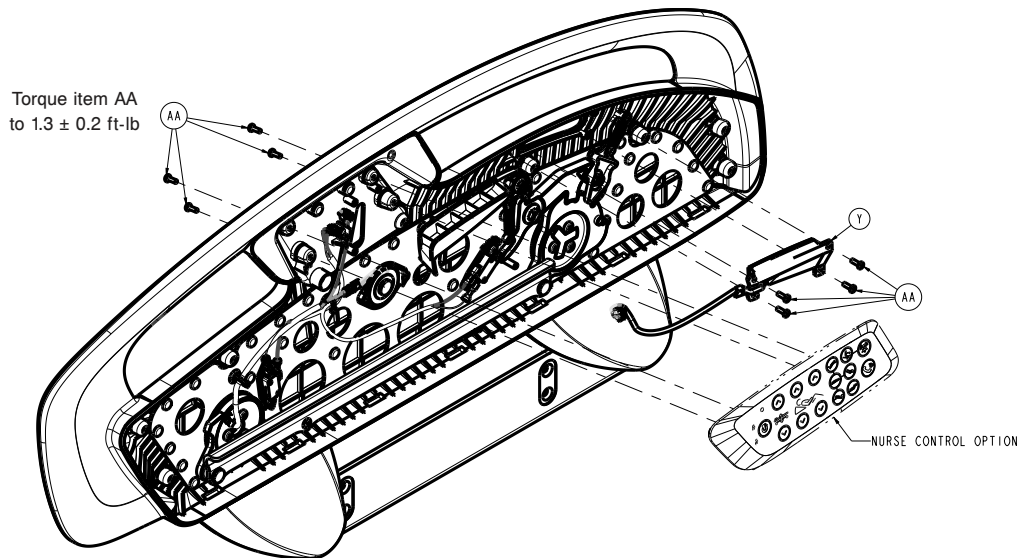


Figure 52 – Replacing the nurse control board

11. Unplug all the cables from the nurse control board. Remove the nurse control board.

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

Patient control board replacement

Tools required:

- Pick
- T20 Torx driver
- T25 Torx driver
- 1/8" hex driver
- ESD system

Procedure:

1. Push down on the brake pedal to apply the brake.
2. Raise the product to the highest height position.
3. Raise the siderail to the up and locked position.
4. Unplug the product from the wall.
5. Turn off the battery disconnect switch to turn the product off.
6. Using a pick, remove the seven screw covers (B) from the inside of the siderail (Figure 50). Discard the screw covers.
7. Using a pick, remove the label from the siderail in the patient belongings bracket (P) (Figure 51). Discard the label.
8. Using a 1/8" hex driver, remove the three screws (AG) that secure the patient belongings bracket (P) to the siderail hoop (Figure 51). Save the screws. Remove and save the patient belongings bracket.

Note - If on the patient left side, unplug the USB cable from the USB board to remove the patient belongings bracket.

9. Using a T25 Torx driver, remove the nine screws (AE) that secure the head cover (M) to the siderail assembly (Figure 50). Remove the outer siderail panel.

CAUTION

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

10. Using a T20 Torx driver, remove the four screws (AA) that secure the patient control board (Y) to the siderail and unplug the cable (Figure 52).
11. Reverse steps to reinstall.
12. Verify proper operation before you return the product to service.

USB port option replacement

Tools required:

- Pick
- 1/8" hex driver

Procedure:

1. Push down on the brake pedal to apply the brake.
2. Raise product to the highest height position.
3. Unplug the product from the wall.
4. Turn off the battery disconnect switch to turn the product off.
5. Raise the siderail to the up and locked position.

6. Using a pick, remove the seven screw covers (B) from the inside of the siderail (Figure 50). Discard the screw covers.
7. Using a pick, remove the label from the siderail in the patient belongings bracket (P) (Figure 51). Discard the label.
8. Using a 1/8" hex driver, remove the three screws (AG) that secure the patient belongings bracket (P) to the siderail hoop (Figure 51).
9. Unplug the USB cable (D) from the USB charging board (E) to remove the patient belonging bracket with USB (B) (Figure 53).

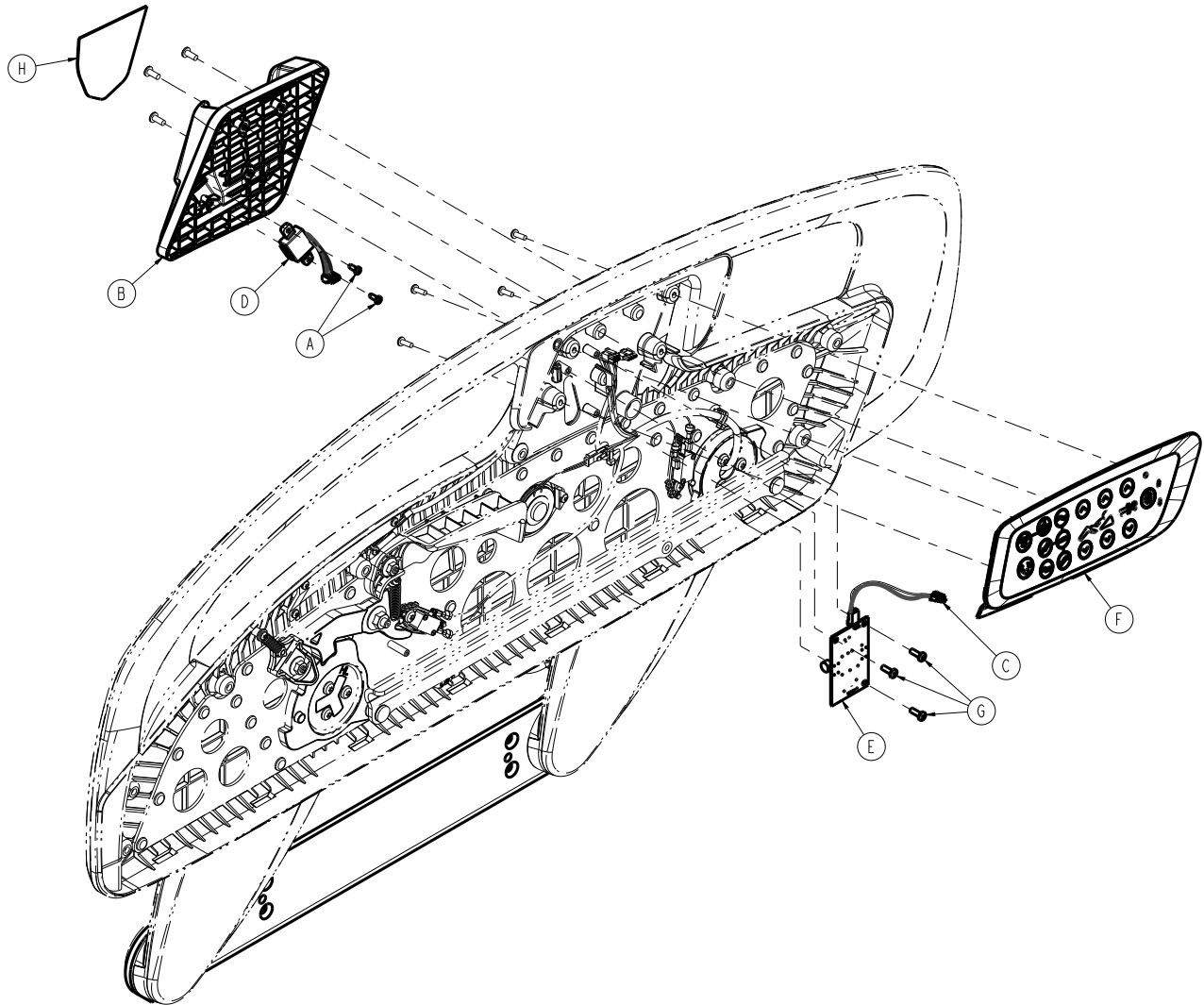


Figure 53 – Replacing the USB port option

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

Head siderail hoop replacement

Tools required:

- Pick
- T20 Torx driver
- T25 Torx driver
- T27 Torx driver
- T30 Torx driver

- Small slotted screwdriver
- Ratchet
- 1/8" hex driver
- 1/2" socket
- 9/16" socket
- Diagonal pliers

Procedure:

1. Push down on the brake pedal to apply the brake.
2. Raise product to the highest height position.
3. Raise the siderail to the up and locked position.
4. Unplug the product from the wall.
5. Turn off the battery disconnect switch to turn the product off.
6. Using a pick, remove the seven screw covers (B) from the inside of the siderail (Figure 50). Discard the screw covers.
7. Using a pick, remove the label from the siderail in the patient belongings bracket (P) (Figure 51). Discard the label.
8. Using a 1/8" hex driver, remove the three screws (AG) that secure the patient belongings bracket (P) to the siderail hoop (Figure 51). Save the screws. Remove and save the patient belongings bracket.

Note - If on the patient left side, unplug the USB cable from the USB board to remove the patient belongings bracket.

9. Using a T25 Torx driver, remove the nine screws (AE) that secure the head cover (M) to the siderail assembly (Figure 50). Save the screws. Remove and save the outer siderail panel.
10. Using a T20 Torx driver, remove the four screws (AA) that secure the nurse control board to the siderail hoop (Figure 52). Save the screws. Allow the nurse control board to hang.
11. If the product has the USB charger option, use a T20 Torx driver to remove the three screws (G) that secure the USB charger board (E) to the siderail hoop (Figure 53). Remove and save the board.
12. Using a T20 Torx driver, remove the four screws (AA) that secure the patient control board (Y) to the siderail hoop (Figure 52). Remove and save the board and cable.
13. Using a T20 Torx driver, remove the two screws (AA) that secure the speaker (V) to the siderail hoop. Save the screws. Remove and save the speaker.

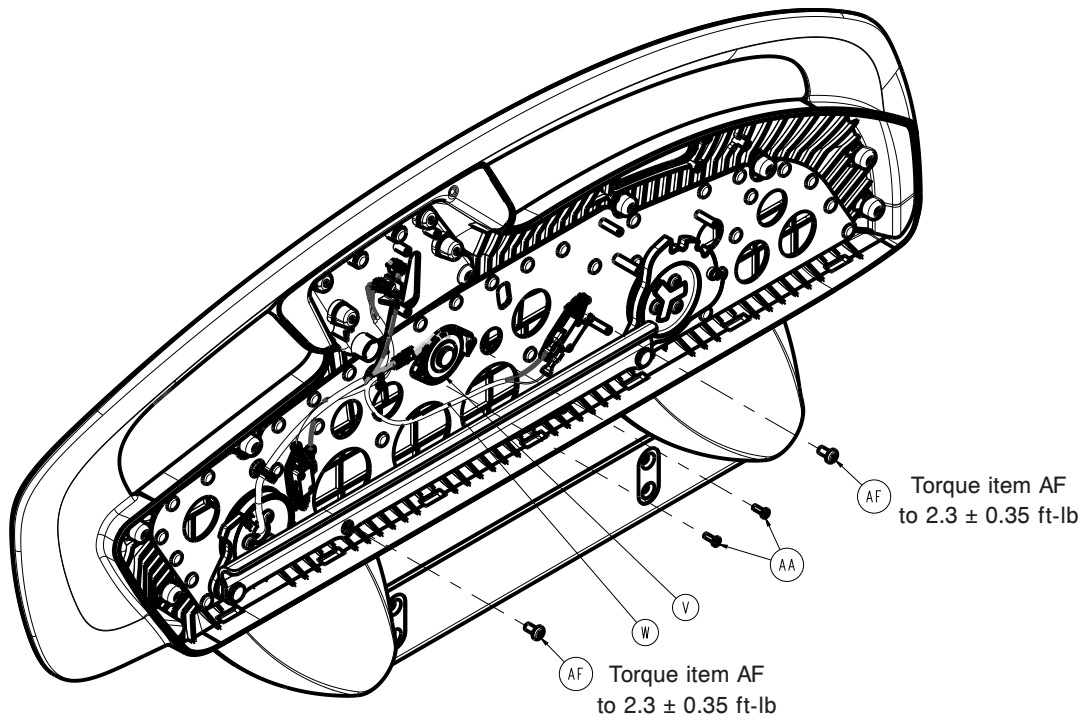


Figure 54 – Removing the speaker assembly

14. Using a T20 Torx driver, remove the screw (AA) and washer (AJ) that secure the spring (E) of the bypass lever (K) to the siderail hoop.

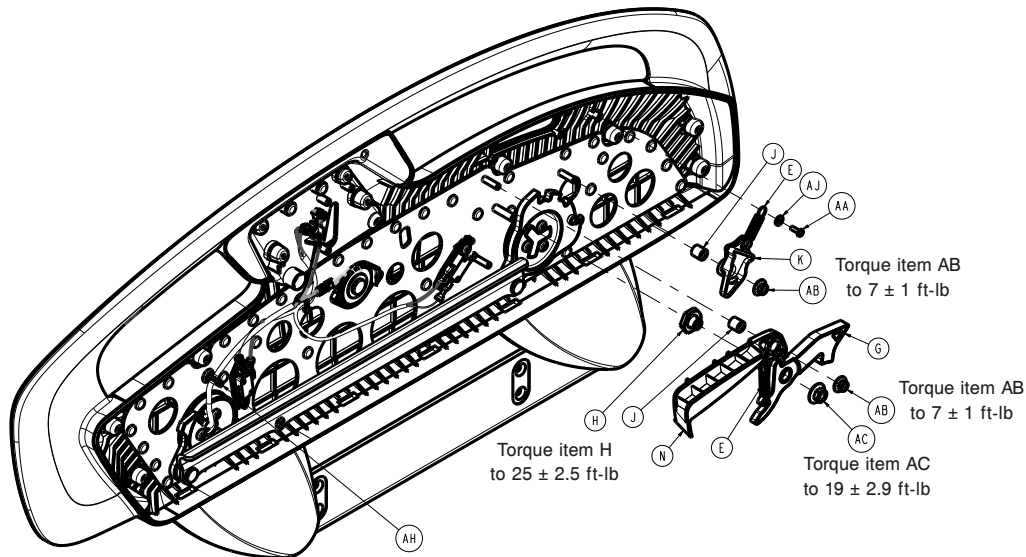


Figure 55 – Replacing the head siderail hoop

15. Using a T30 Torx driver, remove the screws (AF) that secure the siderail switch assemblies (W) to the siderail hoop (Figure 54). Pull out the cable retainer. Save and remove the switches.
16. Using a ratchet and a 1/2" socket, remove the nut (AB) that secures the latch activation lever and latch pawl assembly (G) (Figure 55). Remove and save the activation lever and detent pawl (E).
17. Using a ratchet and a 9/16" socket, remove the nut (AC) that secures the siderail latch to the siderail hoop (Figure 55). Remove the latch.
18. Using diagonal pliers, cut the two cable ties that secure the siderail cable to the Fowler frame. Discard the cut cable ties.
19. Pull the siderail cable out of the Fowler frame tube enough to disconnect the cable connector.

20. Using a T27 Torx driver while you support the siderail, remove the four bolts (H) that secure the siderail mounting bracket to the Fowler frame (Figure 56). Remove the siderail assembly.

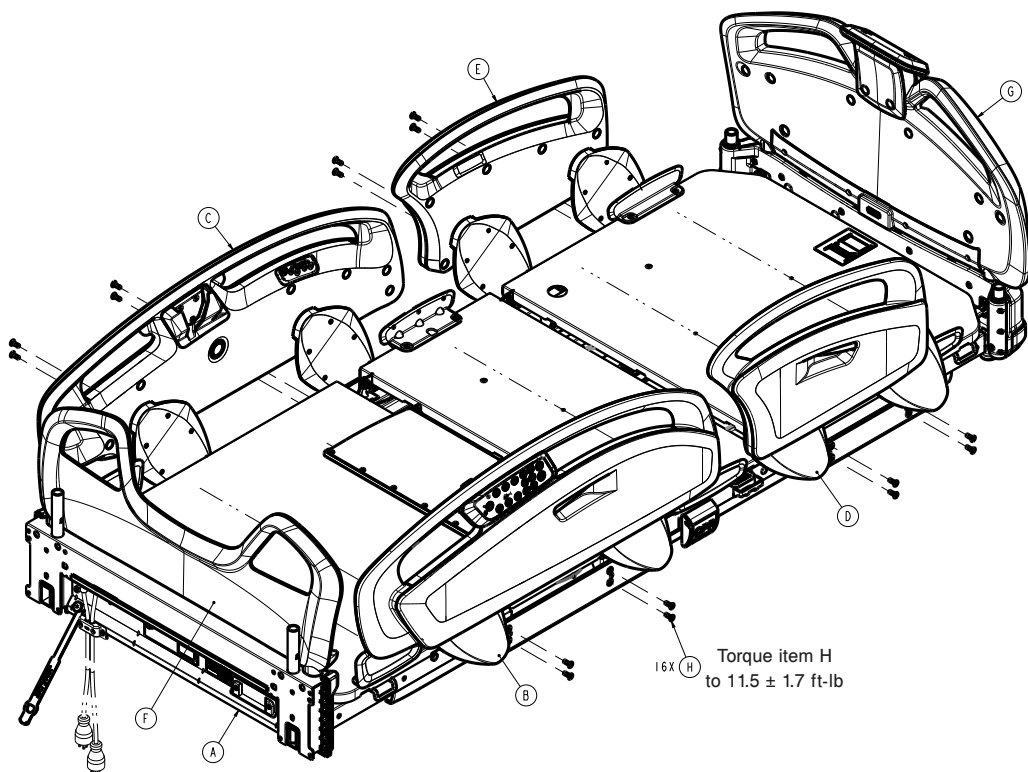


Figure 56 – Replacing the siderail hoop

21. Set the siderail assembly on a work surface.

22. Using a ratchet and a T30 Torx driver, remove the six screws (AD) that secure the timing link cams to the siderail arms (Figure 57).

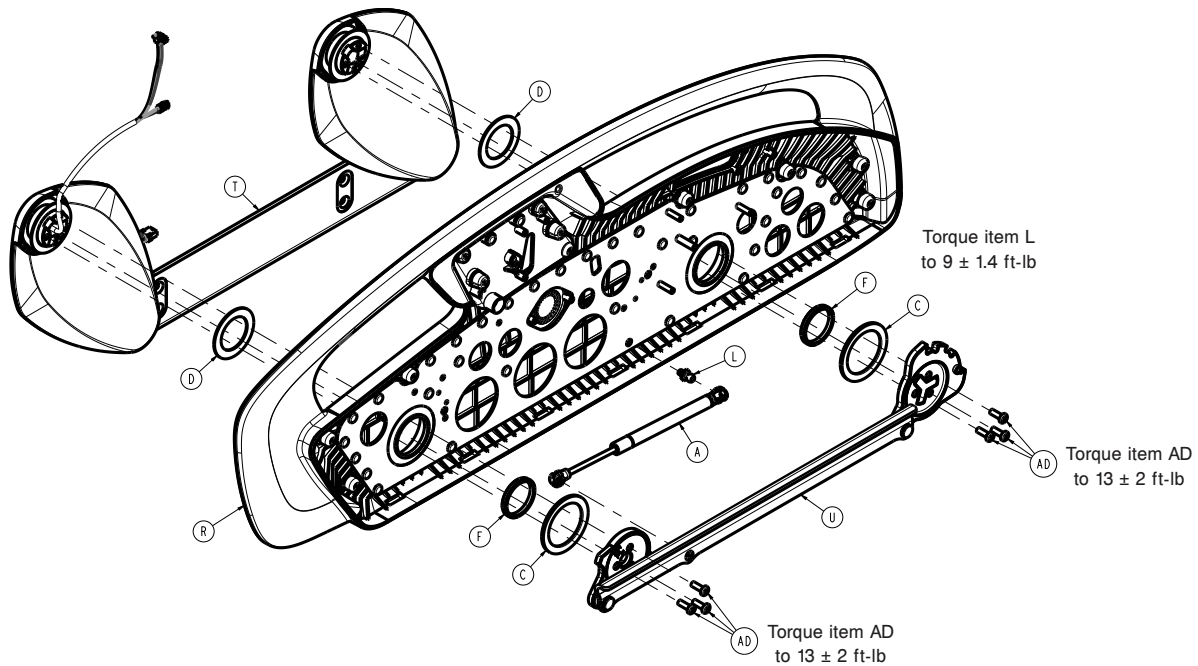


Figure 57 – Replacing the siderail hoop

23. Using a small slotted screwdriver, unclip the gas cylinder (A) from the timing link assembly (U) and the siderail hoop frame (R) to remove the gas cylinder (Figure 57).
24. Remove the timing link assembly.
25. Remove the timing link and hoop washers.
26. Remove the hoop assembly from the siderail arms.
27. Reverse steps to reinstall.
28. Verify proper operation before you return the product to service.

Head siderail switch replacement

Tools required:

- Pick
- T25 Torx driver
- T30 Torx driver
- 1/8" hex driver

Procedure:

1. Push down on the brake pedal to apply the brake.
2. Raise product to the highest height position.
3. Unplug the product from the wall.
4. Turn off the battery disconnect switch to turn the product off.
5. Raise the siderail to the up and locked position.
6. Using a pick, remove the seven screw covers (B) from the inside of the siderail (Figure 50). Discard the screw covers.
7. Using a pick, remove the label from the siderail in the patient belongings bracket (P) (Figure 51). Discard the label.
8. Using a 1/8" hex driver, remove the three screws (AG) that secure the patient belongings bracket (P) to the siderail hoop (Figure 51). Remove and save the patient belongings bracket. Save the screws.

Note - If on the patient left side, unplug the USB cable from the USB board to remove the patient belongings bracket.

9. Using a T25 Torx driver, remove the nine screws (AE) that secure the head cover (M) to the siderail assembly (Figure 50). Remove and save the outer siderail panel. Save the screws.
10. Unplug both wires (black-NC2 of switch and red-COM of switch) connected to the siderail switch assembly (W) (Figure 54).
11. Using a T30 Torx driver, remove the screw (AF) that secures the siderail switch assembly (W) and bracket to the siderail frame (Figure 54).

Note - The bracket keys to the siderail frame.

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

Foot siderail hoop replacement

Tools required:

- Pick
- T20 Torx driver
- T25 Torx driver
- T27 Torx driver
- T30 Torx driver
- Small slotted screwdriver
- Ratchet
- 1/2" socket
- 9/16" socket
- Diagonal pliers

Procedure:

1. Push down on the brake pedal to apply the brake.
2. Raise product to the highest height position.
3. Unplug the product from the wall outlet.
4. Turn off the battery disconnect switch to turn the product off.
5. Raise the siderail to the up and locked position.
6. Using a pick, remove the six screw covers (B) from the inside of the siderail (Figure 58). Discard the screw covers.

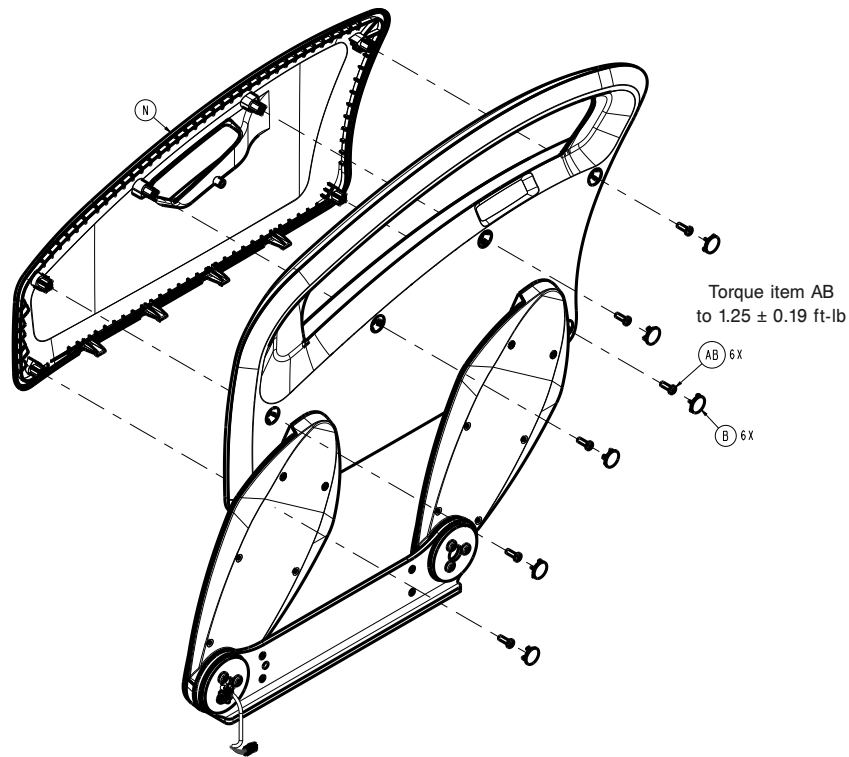


Figure 58 – Replacing the foot siderail hoop

7. Using a T25 Torx driver, remove the six screws (AB) that secure the cover (N) to the siderail assembly. Remove the outer siderail cover.
8. Using a T20 Torx driver, remove the screw (V) and washer (AD) that secure the spring (E) to the siderail hoop for the siderail detent paw (Figure 59).

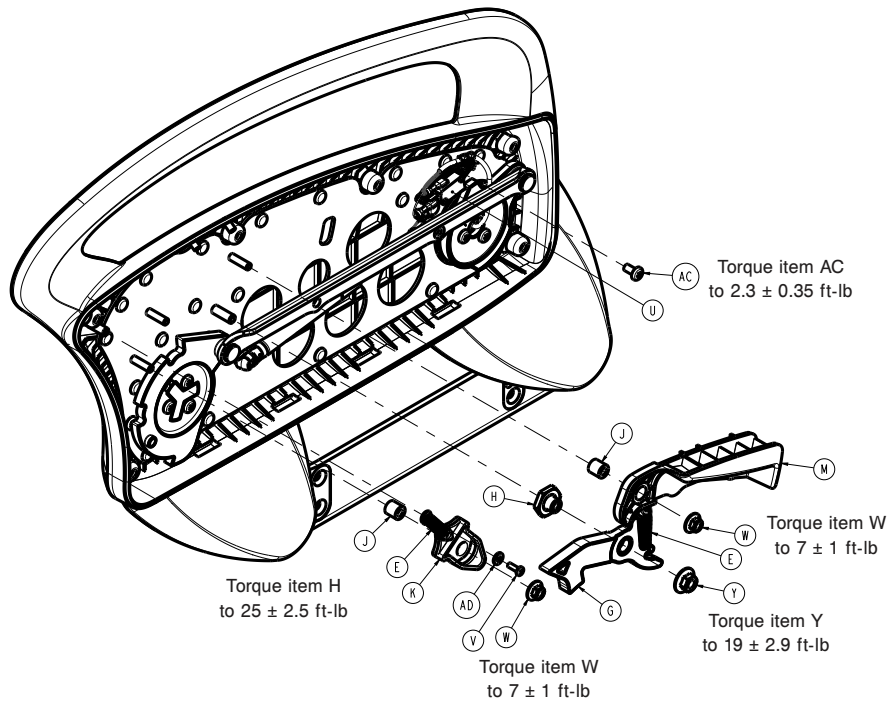


Figure 59 – Replacing the foot siderail hoop

9. Using a T30 Torx driver, remove the screw (AC) that secures the siderail position switch (U) to the siderail hoop. Pull out the cable retainer. Remove and save the switch.

10. Using a ratchet and a 1/2" socket, remove the nut (W) that secures the latch activation lever and the siderail detent paw. Remove and save the activation lever and detent paw.
11. Using a ratchet and a 9/16" socket, remove the nut (Y) that secures the siderail latch (G) to the siderail hoop. Remove and save the latch.
12. Using diagonal pliers, cut the two cable ties that secure the siderail cable to the siderail hoop assembly.
13. Using a T27 Torx driver while you support the siderail, remove the four bolts (H) that secure the siderail mounting bracket to the litter frame (Figure 56). Save the bolts. Remove the siderail assembly.
14. Set the siderail assembly on a work surface.
15. Using a ratchet and a T30 Torx driver, remove the six screws (AA) that secure the timing link cams to the siderail arms (Figure 60). Save the screws.

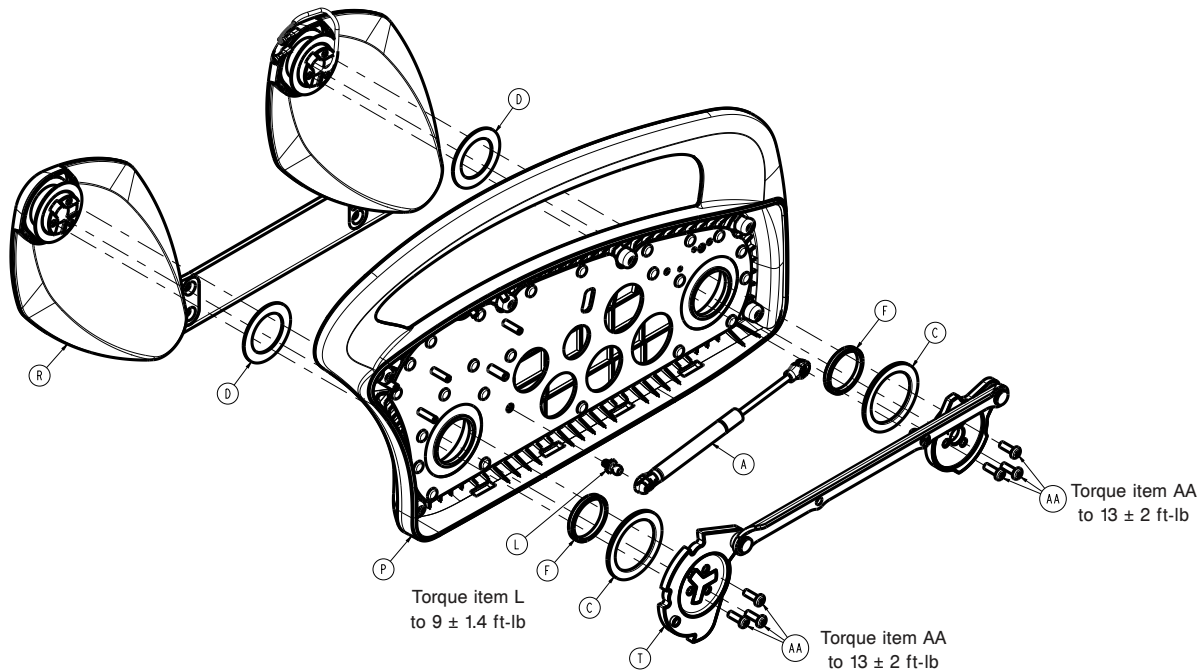


Figure 60 – Replacing the foot siderail hoop

16. Using a small slotted screwdriver, unclip the gas cylinder (A) from the timing link assembly (T) and the siderail hoop frame (P) to remove the gas cylinder.
17. Remove the timing link assembly.
18. Remove the timing link and hoop washers.
19. Remove the hoop assembly from the siderail arms.
20. Reverse steps to reinstall.
21. Verify proper operation before you return the product to service.

Foot siderail switch replacement

Tools required:

- Pick
- T25 Torx driver
- T30 Torx driver
- Diagonal pliers

Procedure:

1. Push down on the brake pedal to apply the brake.
2. Raise product to the highest height position.
3. Unplug the product from the wall.
4. Turn off the battery disconnect switch to turn the product off.
5. Raise the siderail to the up and locked position.
6. Using a pick, remove the six screw covers (B) from the inside of the siderail (Figure 58). Discard the screw covers.

Note - You must move the siderail to the intermediate locked position to get to the bottom head end screw.

7. Using a T25 Torx driver, remove the six screws (AB) that secure the cover (N) to the siderail assembly (Figure 58). Remove the outer siderail cover.
8. Unplug both wires (black - COM of switch and red - NC2 of switch) connected to the siderail position switch.
9. Using a T30 Torx driver, remove the screw (AC) that secures the siderail switch assembly (U) and bracket to the siderail frame (Figure 59).

Note - Before you unplug the wires, note the wire positions.

10. Using diagonal pliers, cut the two cable ties that secure the switch cable to the switch bracket.
11. Reverse steps to reinstall.
12. Verify proper operation before you return the product to service.

Gas cylinder, head siderail replacement

Tools required:

- Pick
- T25 Torx driver
- T27 Torx driver
- T30 Torx driver
- Ratchet
- 1/8" hex driver
- Small slotted screwdriver
- Diagonal pliers

Procedure:

1. Push down on the brake pedal to apply the brake.
2. Raise the product to the highest height position.
3. Unplug the product from the wall.
4. Turn off the battery disconnect switch to turn the product off.
5. Raise the siderail to the up and locked position.
6. Using a pick, remove the seven screw covers (B) from the inside of the siderail (Figure 50). Discard the screw covers.
7. Using a pick, remove the label from the siderail in the patient belongings bracket (P) (Figure 51). Discard the label.
8. Using a 1/8" hex driver, remove the three screws (AG) that secure the patient belongings bracket (P) to the siderail hoop (Figure 51). Remove and save the patient belongings bracket. Save the screws.

Note - If on the patient left side, unplug the USB cable from the USB board to remove the patient belongings bracket.

9. Using a T25 Torx driver, remove the nine screws (AE) that secure the head cover (M) to the siderail assembly (Figure 50). Remove and save the outer siderail panel. Save the screws.
10. Using diagonal pliers, cut the two cable ties that secure the siderail cable to the Fowler frame.
11. Pull the siderail cable out of the Fowler frame tube enough to disconnect the cable connector.
12. Using a T27 Torx driver while you support the siderail, remove the four bolts (H) that secure the siderail mounting bracket to the Fowler frame (Figure 56). Remove the siderail assembly.
13. Set the siderail assembly on a work surface.
14. Using a ratchet and a T30 Torx driver, remove the six screws (AD) that secure the timing link cams to the siderail arms (Figure 57).
15. Using a small slotted screwdriver, unclip the gas cylinder (A) from the timing link assembly (U) and the siderail hoop frame (R) to remove the gas cylinder.
16. Remove the timing link assembly (U).
17. Reverse steps to reinstall.
18. Verify proper operation before you return the product to service.

Gas cylinder, foot siderail replacement

Tools required:

- Pick
- T25 Torx driver
- T27 Torx driver
- T30 Torx driver
- Ratchet
- 9/16" socket
- 1/2" socket
- Small slotted screwdriver
- Diagonal pliers

Procedure:

1. Push down on the brake pedal to apply the brake.
2. Raise the product to the highest height position.
3. Unplug the product from the wall.
4. Turn off the battery disconnect switch to turn the product off.
5. Raise the siderail to the up and locked position.
6. Using a pick, remove the six screw covers (B) from the inside of the siderail (Figure 58). Discard the screw covers.
7. Using a T25 Torx driver, remove the six screws (AB) that secure the cover (N) to the siderail assembly (Figure 58). Remove the outer siderail cover.
8. Using diagonal pliers, cut the two cable ties that secure the siderail cable to the siderail hoop assembly.
9. Using a T27 Torx driver while you support the siderail, remove the four bolts (H) that secure the siderail mounting bracket to the litter frame (Figure 56). Save the bolts. Remove the siderail assembly.
10. Set the siderail assembly on a work surface.
11. Using a ratchet and a T30 Torx driver, remove the six screws (AA) that secure the timing link cams to the siderail arms (Figure 60). Save the screws.
12. Using a small slotted screwdriver, unclip the gas cylinder (A) from the timing link assembly (T) and the siderail hoop frame (P) to remove the gas cylinder (Figure 60).

13. Remove the timing link assembly.
14. Reverse steps to reinstall.
15. Verify proper operation before you return the product to service.

Siderail assembly replacement, head end, left or right

A minimum of two operators is recommended for this task.

Tools required:

- T30 Torx driver
- Wire cutters
- Needle nose pliers
- Marker

Procedure:

1. Push down on the brake pedal to apply the brake.
2. Raise the product to the highest height position.
3. Raise the Fowler to the highest position.
4. Raise the head end siderail to the highest locked position.
5. Remove the headboard.
6. Unplug the product from the wall.
7. Turn off the battery disconnect switch to turn the product off.
8. Using a marker, mark the left and right siderail cables where the cables are attached to the Fowler weldment with a cable tie for installation reference. There are three cable tie locations on each side. Remove and discard the cut cable ties.
9. Using wire cutters, cut the three cable ties that secure the siderail and pendant port (if replacing the right side) cables to the Fowler weldment.

Note - Make sure you do not damage the cable when you cut the cable ties. When you install the new siderail assembly, install the supplied cables ties. Trim and discard the excess cable ties.

10. Pull the cables through the upper cable hole to gain access to the siderail cable connector. Unplug the connector.
11. Remove the hand pendant (if present). Save the hand pendant (if you change the right side).
12. Using a T30 Torx driver, remove the two screws (F) that secure the pendant port/bracket (E) to the Fowler weldment (if replacing the right siderail) (Figure 24). Save the screws.
13. Pull on the hand pendant port/bracket to gain access to the cable connector. Unplug the connector and discard (if replacing the right siderail).
14. If you are replacing the right siderail assembly, pull the litter side of the siderail cable and hand pendant port cable to remove the cable from the Fowler weldment (Figure 39).
15. Using a T30 Torx driver, loosen the four screws (H) that secure the siderail assembly to the Fowler weldment.
16. Using a T30 Torx driver, and help from someone to support the siderail assembly, remove the foot end (bottom) two screws and the head end (top) two screws. Remove the siderail assembly.

Note - The siderail assembly is heavy, use caution.

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

Siderail assembly replacement, foot end, left or right

A minimum of two operators is recommended for this task.

Tools required:

- T25 Torx driver
- T30 Torx driver
- Wire cutters
- Needle nose pliers

Procedure:

1. Push down on the brake pedal to apply the brake.
2. Raise the product to the highest height position.
3. Raise the Gatch to the highest position.
4. Raise the siderail to the highest locked position.
5. Unplug the power cord from the wall.
6. Turn off the battery disconnect switch to turn the product off.
7. Using a T25 Torx driver, remove the four screws (BN) from the litter cable rail cover (H, J) on the foot end (Figure 61). Remove the cover. Save the screws and cover.

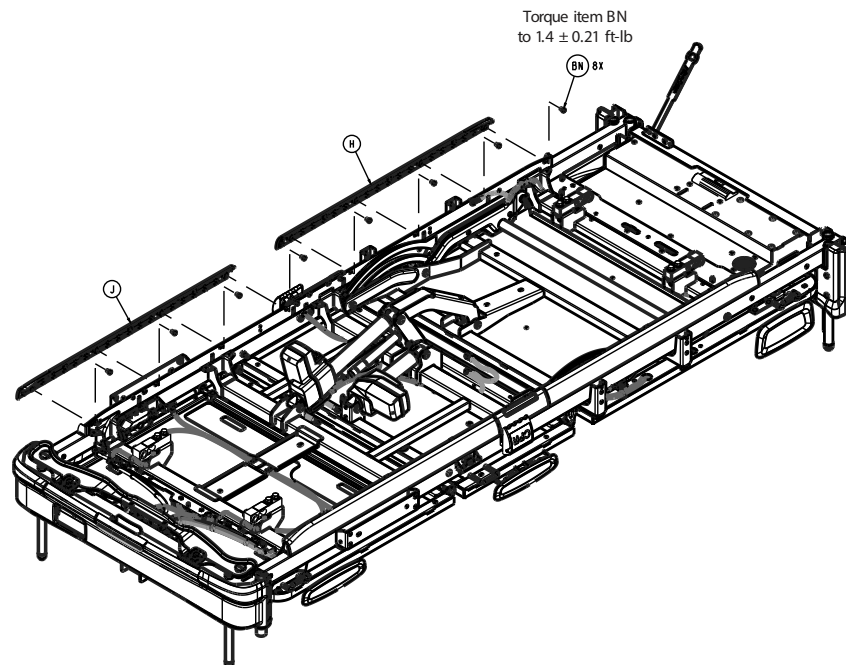


Figure 61 – Removing the cover

8. Using wire cutters, cut the cable tie that secures the siderail cable to the top of the litter frame.

Note - Make sure you do not damage the cable when you cut the cable ties. When you install the new siderail assembly, install the supplied cables ties. Trim and discard the excess cable ties.

9. Note all cable locations, then unplug the siderail cable connector on the outside of the frame rail.
10. Using a T30 Torx driver, loosen the four screws (H) that secure the siderail assembly to the litter frame (Figure 62).

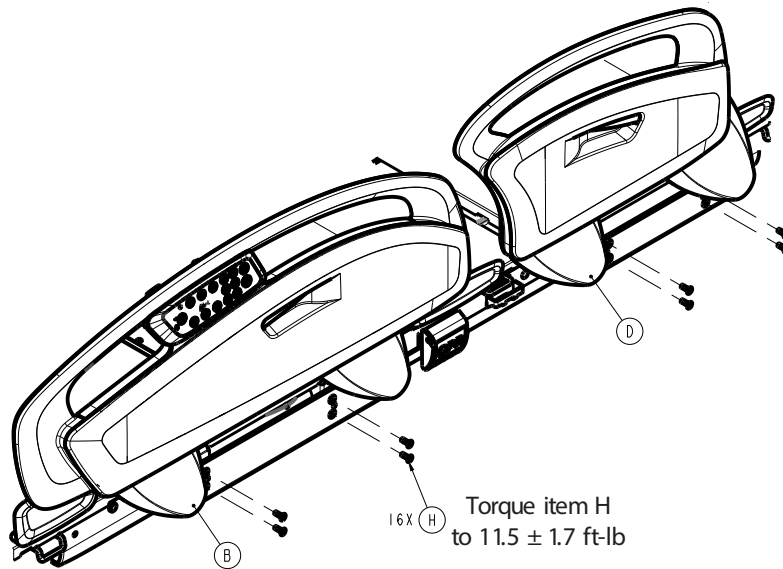


Figure 62 – Removing the assembly

11. Using a T30 Torx driver, and help from someone to support the siderail assembly, remove the four screws. Remove the siderail assembly.

Note - The siderail assembly is heavy, use caution.

12. Reverse steps to reinstall.

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

Zoom battery replacement

Tools required:

- T27 Torx driver
- Ratchet
- 5/16" socket
- Torque wrench

Procedure:

1. Push down on the brake pedal to apply the brake.
2. Raise the product to the highest height position.
3. Unplug the product from the wall.
4. Turn off the battery disconnect switch to turn the product off.
5. Trip the **Zoom** circuit breaker to turn **Zoom** off.
6. Remove the two push rivets (AG) that secure the outer base cover (H) to the **Zoom** cover (G) (Figure 63). Save the rivets and outer base cover. Repeat for the opposite side.

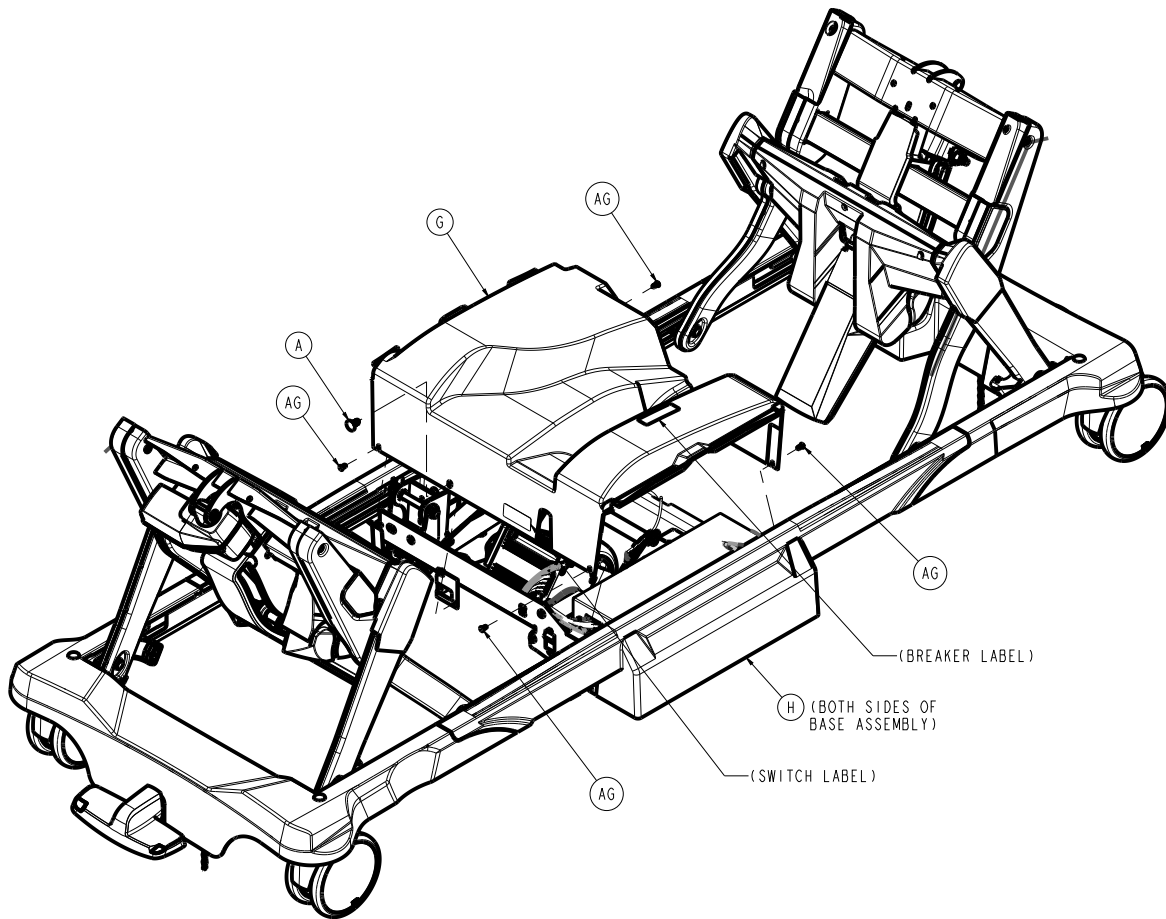


Figure 63 – Removing the Zoom cover

7. Lift up from the center to remove the outer base covers. Save the outer base covers.
8. Remove and save the **Zoom** cover (G) (Figure 63).
9. Using a T27 Torx driver, remove the three screws (AJ) that secure the battery box cover (T) to the base weldment (Figure 64). Save the screws and battery box cover.

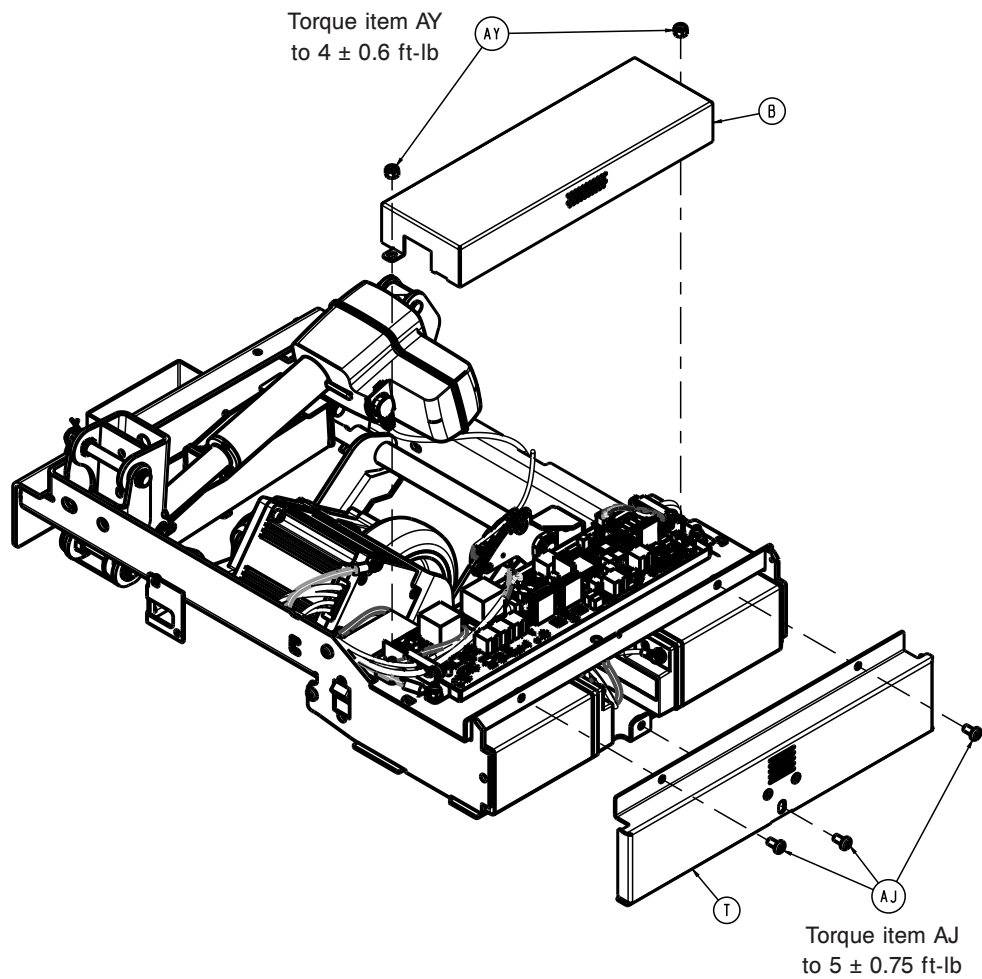


Figure 64 – Removing the battery cover

10. Remove the batteries (AG) (Figure 65).

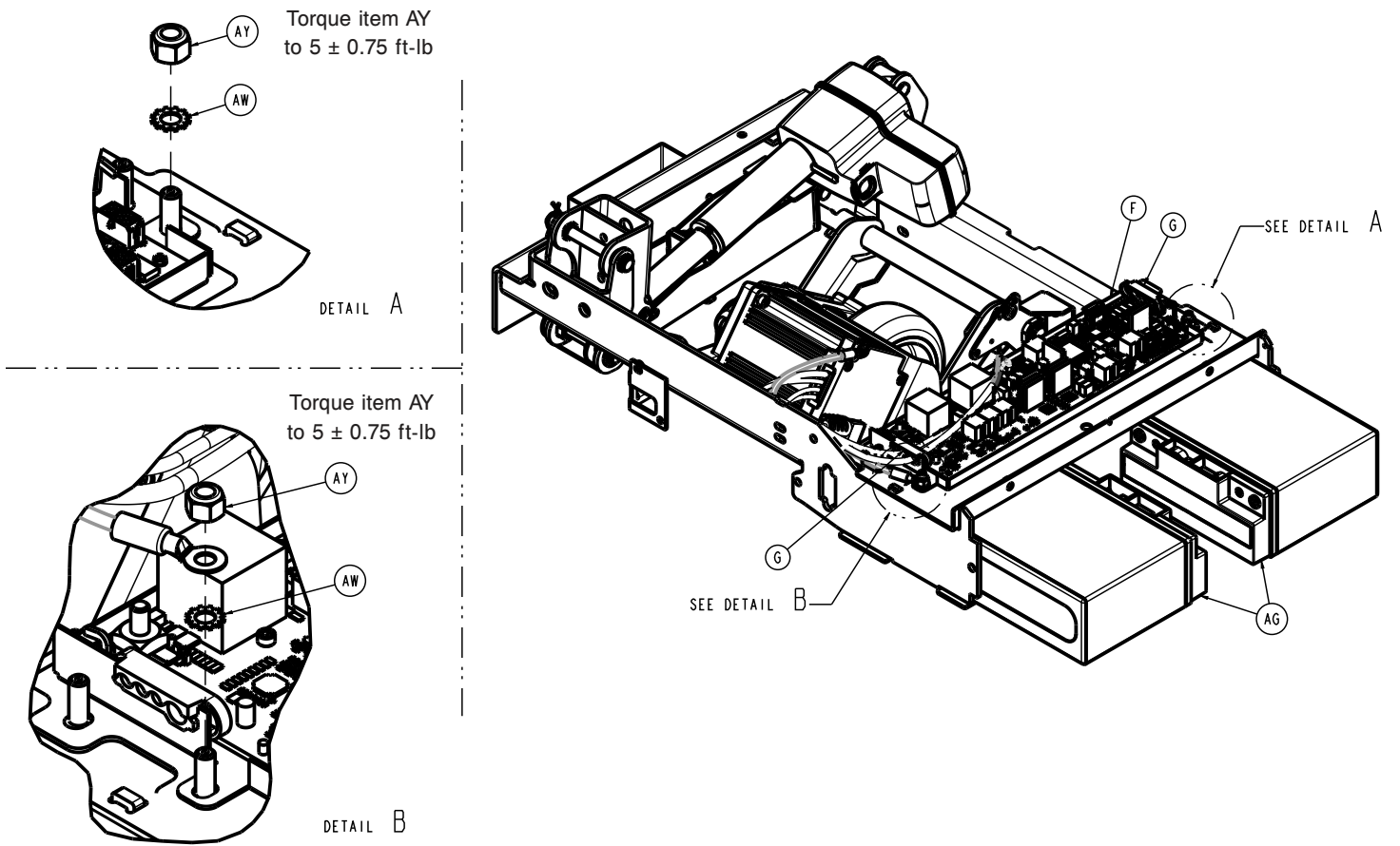


Figure 65 – Removing the batteries

- Using a 5/16" socket and ratchet, remove the bolt (AR), lock washer (AT), and flat washer (AP) that secure the positive wire (red) and the negative wire (black) to the battery (Figure 66). Save the bolt and washers. Repeat for the other battery.

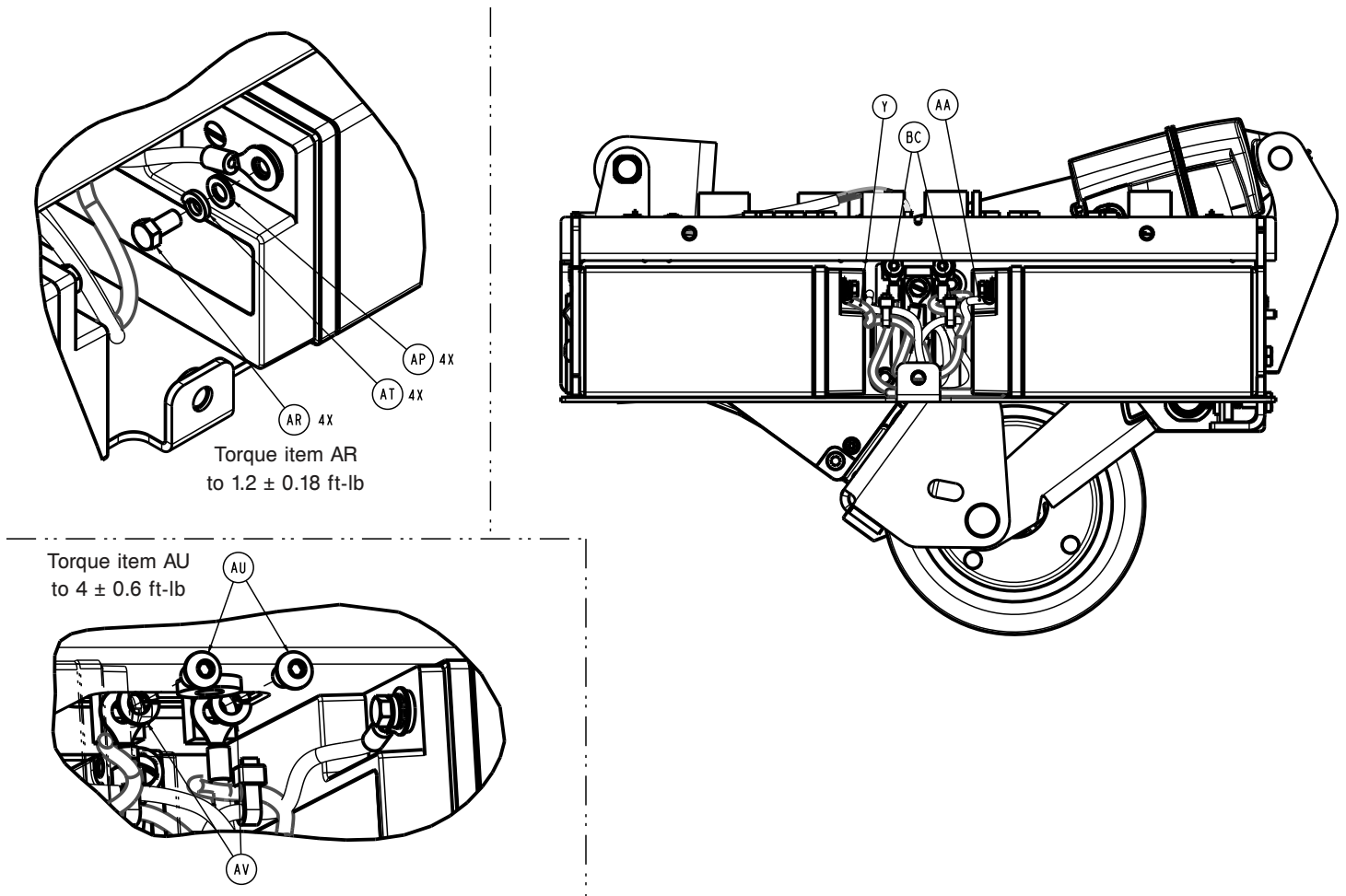


Figure 66 – Removing the batteries

Note

- Do not short the battery terminals together.
- Note all wire locations before you disconnect the wires.
- Do not dispose of as unsorted municipal waste. Refer to your local distributor for return or collections systems available in your country.

12. Reverse steps to reinstall.

Note - When you reinstall, torque the battery bolt (AR) to 1.2 ± 0.18 ft-lb.

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

Zoom actuator replacement

Tools required:

- Needle nose pliers
- Small slotted screwdriver

Procedure:

1. Push down on the brake pedal to apply the brake.
2. Raise the product to the highest height position.
3. Unplug the product from the wall outlet.
4. Turn off the battery disconnect switch to turn the product off.

5. Trip the **Zoom** circuit breaker to turn **Zoom** off.
6. Remove the two push rivets (AG) that secure the outer base cover (H) to the **Zoom** cover (G) (Figure 63). Save the rivets and outer base cover. Repeat for the opposite side.
7. Lift up from the center to remove the outer base covers. Save the outer base covers.
8. Remove and save the **Zoom** cover (G) (Figure 63).
9. Using needle nose pliers, remove the rue ring cotter (BA) from the actuator ram pin (L) and clevis pin (AL) (Figure 67). Save the rue ring cotter.

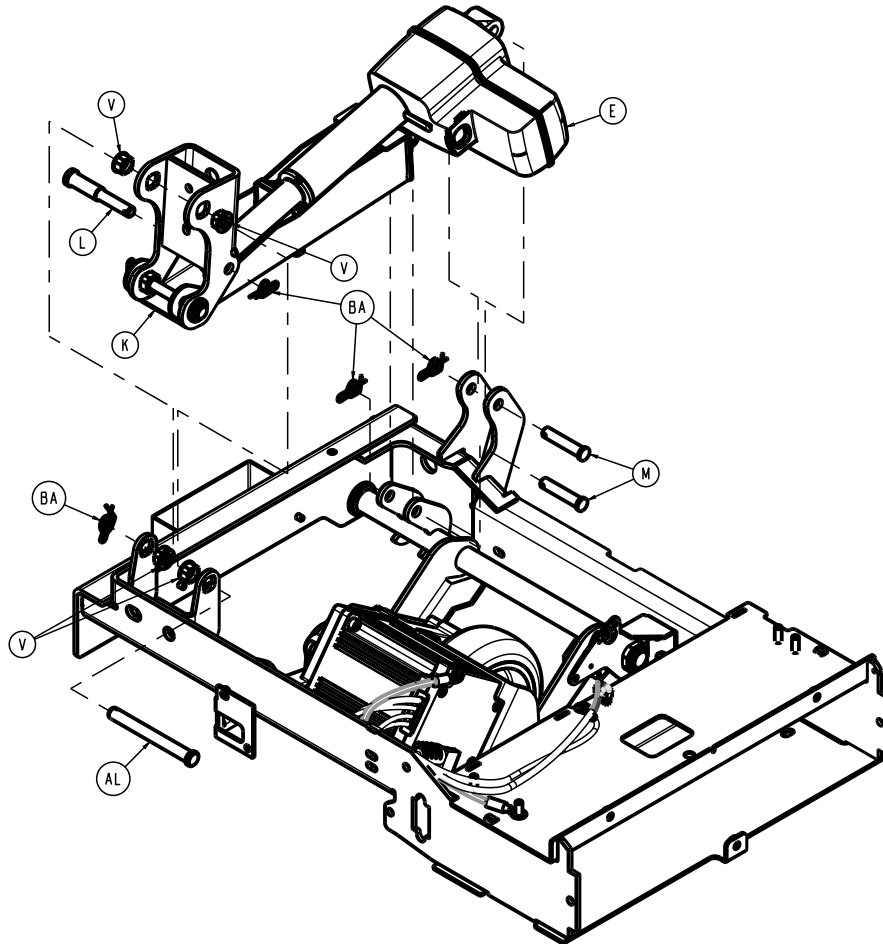


Figure 67 – Removing the Zoom actuator

10. Lift up on the **Zoom** motor drive wheel and remove the clevis pin (AL) and actuator ram pin (L) (Figure 67). Save the clevis pin and ram pin.
11. Using needle nose pliers, remove the rue ring cotter (BA) from the actuator base pin (M) (Figure 67). Save the rue ring cotter.

Note - When you reinstall the actuator, install the actuator base pin last.

12. Holding the actuator, remove the actuator base pin (M) (Figure 67). Save the base pin.
13. Using a small slotted screwdriver, remove the actuator cable retainer by pushing out on the retainer. Save the cable retainer.
14. Disconnect the actuator cable.
15. Reverse steps to reinstall.
16. Verify proper operation before you return the product to service.

Zoom motor/wheel replacement

Tools required:

- T27 Torx driver
- Ratchet
- 7/16" socket
- Torque wrench
- Needle nose pliers
- Diagonal pliers

Procedure:

1. Push down on the brake pedal to apply the brake.
 2. Raise the product to the highest height position.
 3. Unplug the product from the wall.
 4. Turn off the battery disconnect switch to turn the product off.
 5. Trip the **Zoom** circuit breaker to turn **Zoom** off.
 6. Remove the two push rivets (AG) that secure the outer base cover (H) to the **Zoom** cover (G) (Figure 63). Save the rivets and outer base cover. Repeat for the opposite side.
 7. Lift up from the center to remove and save the outer base covers.
 8. Remove and save the **Zoom** cover (G) (Figure 63).
 9. Using needle nose pliers, remove the rue ring cotter (BA) from the clevis pin (AL) (Figure 67). Save the rue ring cotter.
 10. Lift up on the **Zoom** motor drive wheel and remove the clevis pin (AL) (Figure 67). Save the clevis pin.
 11. Using needle nose pliers, remove the rue ring cotter (BA) from the actuator base pin (M) (Figure 67). Save the rue ring cotter.
- Note** - When you reinstall the actuator, install the actuator base pin last.
12. Lift up on the actuator spring cartridge and using a T27 Torx driver, remove the screw (AE), washer (AN), and bushing (D) that secure the motor/wheel assembly (A) to the crank weldment (Figure 68). Save the screw, washer, and bushing.

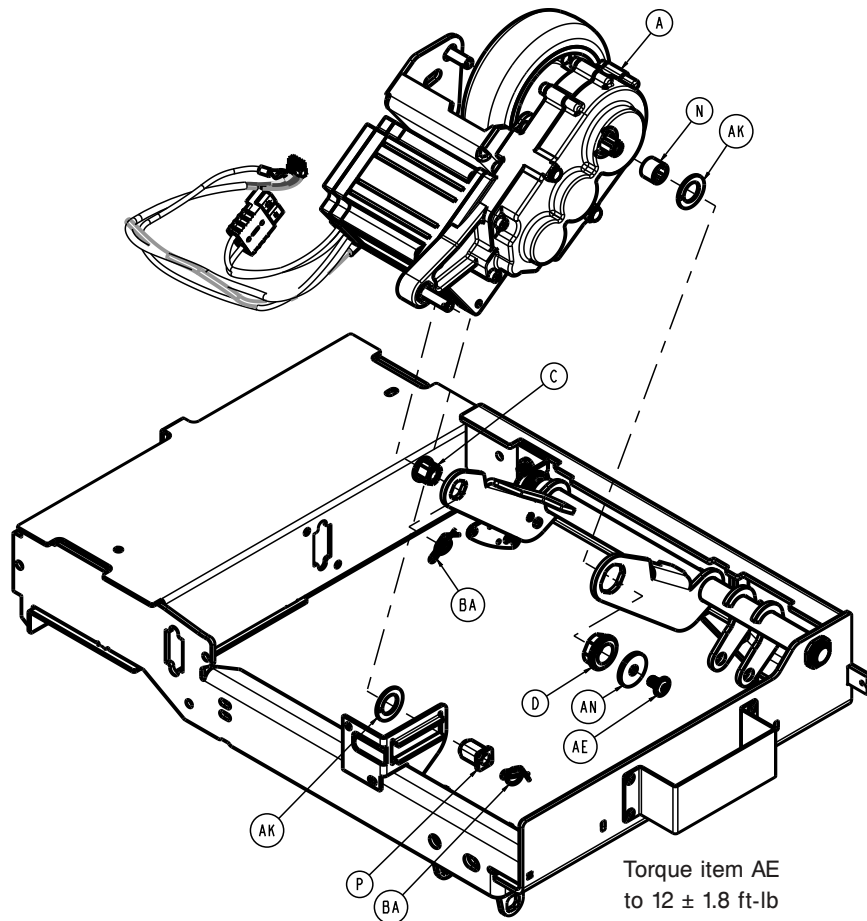


Figure 68 – Removing the Zoom motor/wheel assembly

Note - When you reinstall, torque the screw (AE) to 12 ± 1.8 ft-lb.

- 13. Using needle nose pliers, remove the rue ring cotter (BA) from the motor/wheel assembly (A) (Figure 68). Save the rue ring cotter.
- 14. Using diagonal pliers, cut the two cable ties (BC) that secure the motor cables to the frame weldment.

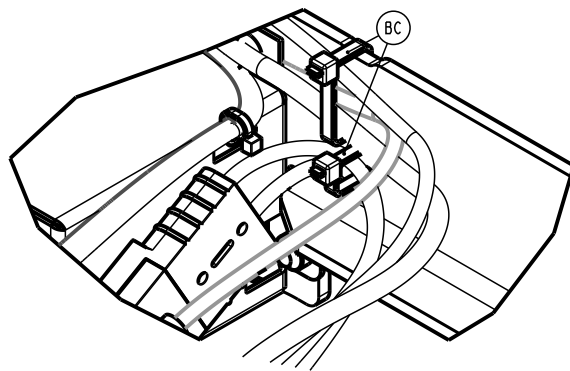


Figure 69 – Removing the Zoom motor/wheel assembly

- 15. Using a ratchet and 7/16” socket, remove the two nuts (AY) that secure the board cover (B) to the frame weldment (Figure 64). Save the nuts and board cover.
- 16. Unclip the cable retainer (G) (Figure 65).
- 17. Using a ratchet and 7/16” socket, remove the nut (AY) that secures the ground wire to the frame weldment (Figure 65 detail B). Save the nut.

18. Using a ratchet and 7/16" socket, remove the nut (AY) that secures the motor power wire to the **Zoom** control (Figure 70). Save the nut.

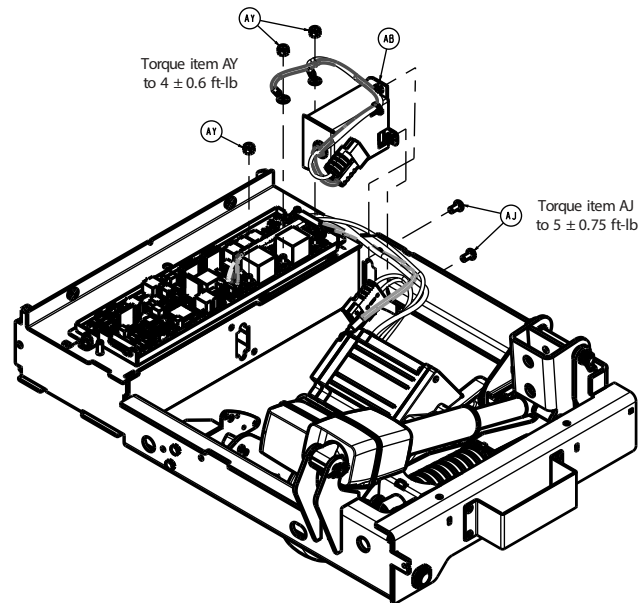


Figure 70 – Removing the motor power wire

19. Disconnect the motor communication cable from the **Zoom** control (F) (Figure 65).
20. Disconnect the dual pole power connector.
21. From the patient left side of the bed, lift the motor/wheel assembly left and then up.
22. Reverse steps to reinstall.
23. Verify proper operation before you return the product to service.

Zoom control board replacement

Tools required:

- Ratchet
- 7/16" socket
- Flat blade screwdriver
- 5/32" hex wrench
- ESD system

Procedure:

1. Push down on the brake pedal to apply the brake.
2. Raise the product to the highest height position.
3. Unplug the product from the wall.
4. Turn off the battery disconnect switch to turn the product off.
5. Trip the **Zoom** circuit breaker to turn **Zoom** off.
6. Remove the two push rivets (AG) that secure the outer base cover (H) to the **Zoom** cover (G) (Figure 63). Save the rivets and outer base cover. Repeat for the opposite side.
7. Lift up from the center to remove and save the outer base covers.
8. Remove and save the **Zoom** cover (G) (Figure 63).

9. Using a ratchet and 7/16" socket, remove the two nuts (AY) that secure the board cover (B) to the frame weldment (Figure 64). Save the nuts and board cover.
10. Unclip the cable retainer (G) (Figure 65).
11. Using a ratchet and 7/16" socket, remove the nut (AY) that secures the foot end ground wire to the frame weldment (Figure 65 detail B). Save the nut.
12. Using a ratchet and 7/16" socket, remove the nut (AY) that secures the motor power wires (U, V, W) to the **Zoom** control board (F) and unclip from the cable retainer (G) (Figure 65). Save the nut.
13. Disconnect the motor communication cable from the **Zoom** control board (F) and unclip from the cable retainer (G) (Figure 65).
14. Using a ratchet and 7/16" socket, remove the nut (AY) that secures the head end ground wire to the frame weldment (Figure 65 detail B). Save the nut.

CAUTION

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

15. Disconnect the five cable connections on the head end of the **Zoom** control board (F) and unclip from the cable retainer (G) (Figure 65).
16. Using a flat blade screwdriver, remove the **Zoom** control board tray from the frame weldment.
17. Using a 5/32" hex wrench, remove the two screws (AU) and lock washers (AV) from the battery wires to remove the board (Figure 66).

Note - When you reinstall, the **Zoom** control board kit will include a rubber seal pad.
18. Reverse steps to reinstall.
19. Verify proper operation before you return the product to service.

Zoom drive handle replacement

Tools required:

- T25 Torx driver
- T30 Torx driver
- **Syn-Tech** grease (3000-200-179)

Procedure:

1. Push down on the brake pedal to apply the brake.
2. Raise the product to the highest height position.
3. Raise the Fowler to the full up position.
4. Unplug the product from the wall.
5. Turn off the battery disconnect switch to turn the product off.
6. Trip the **Zoom** circuit breaker to turn **Zoom** off.
7. Using a T25 Torx driver, remove the two screws (BJ) that secure the litter electronics box cover (E) to the electronics box assembly (Figure 26). Save the screws.
8. Using a T30 Torx driver, remove the two screws (AN) that secure the litter electronics box cover (E) to the electronics box assembly and remove the cover (Figure 26). Save the screws and cover.
9. Disconnect the **Zoom** handle cable from the main control board connector.
10. Using a T30 Torx driver, remove the two screws (AN) that secure the front head cover (F) (Figure 17). Save the screws and cover.
11. Using a T25 Torx driver, remove the three screws (AA) that secure the **Zoom** drive handle assembly (P) to the head end litter weldment and remove the **Zoom** drive handle assembly (P) (Figure 71). Save the screws.

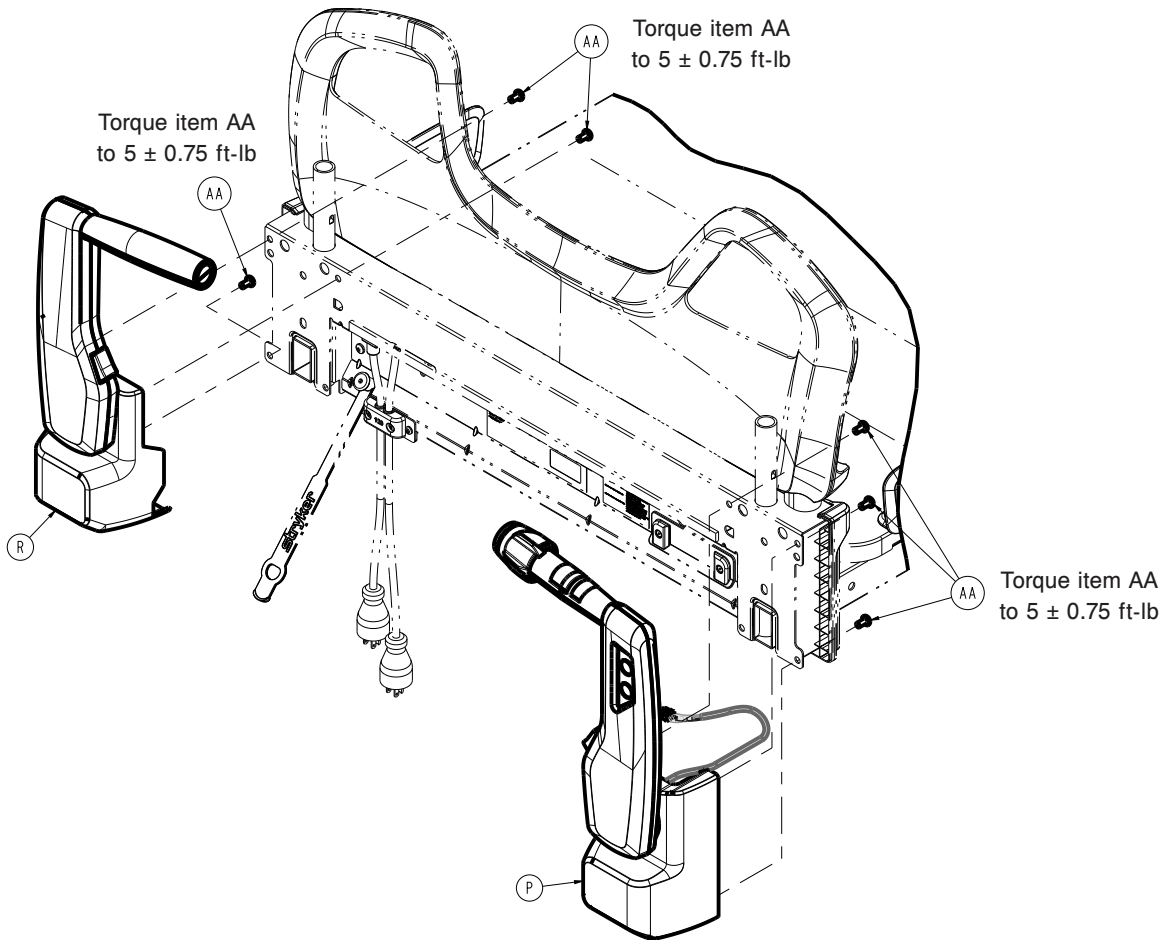


Figure 71 – Removing the Zoom handle assembly

12. Using a T30 Torx driver, remove the three screws (E) that secure the Zoom drive handle (A) to the bumper (B) and remove the pivot plate (D) (Figure 72). Save the pivot plate.

Note - When you reinstall the Zoom drive handle assembly, make sure that you apply **Syn-Tech** grease to the pivot area of the handle.

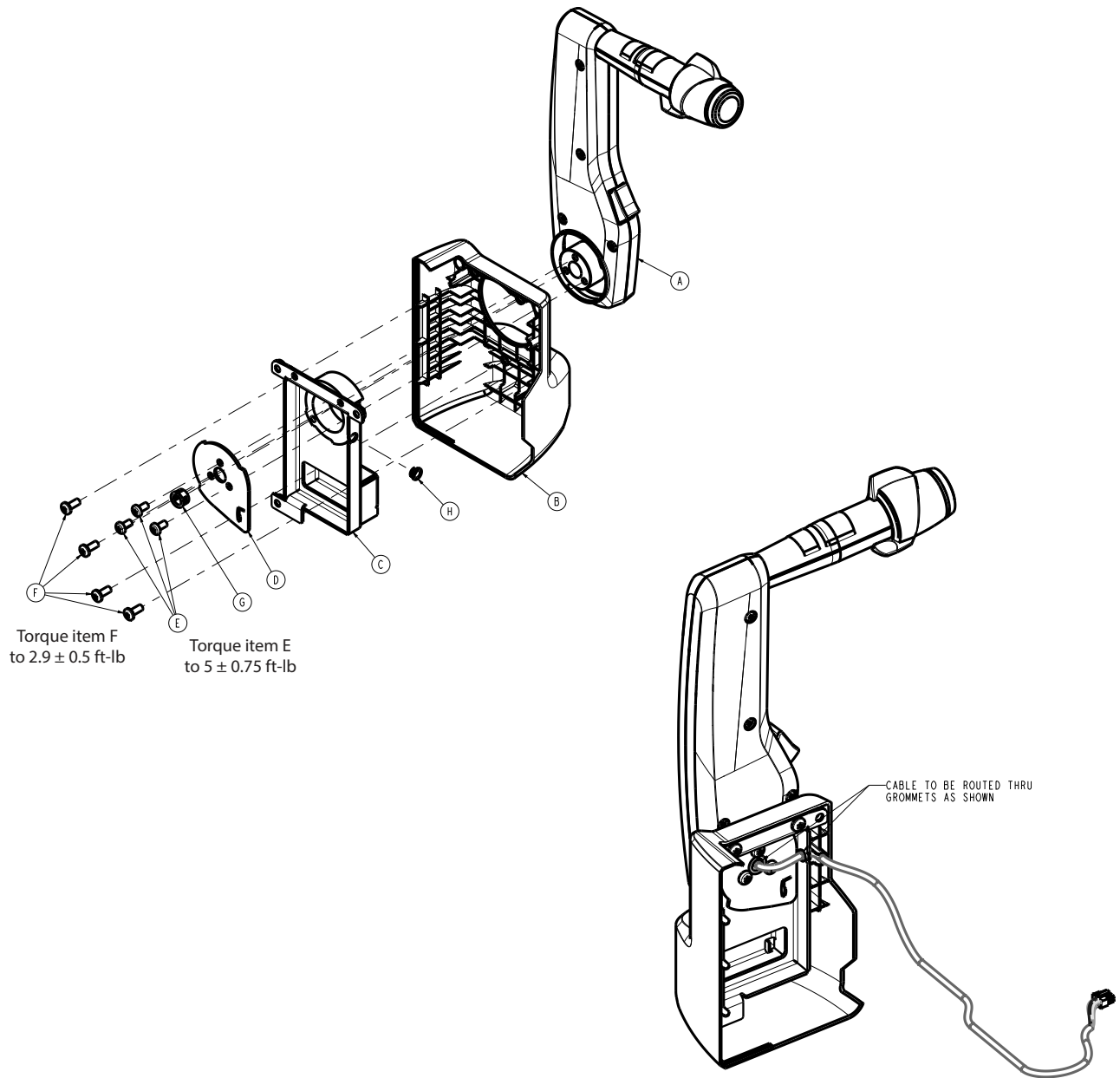


Figure 72 – Removing the Zoom drive handle

13. Reverse steps to reinstall.

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

Zoom push handle replacement

Tools required:

- T25 Torx driver
- T30 Torx driver
- **Syn-Tech** grease (3000-200-179)

Procedure:

1. Push down on the brake pedal to apply the brake.
2. Raise the product to the highest height position.

3. Raise the Fowler to the full up position.
4. Unplug the product from the wall.
5. Turn off the battery disconnect switch to turn the product off.
6. Trip the **Zoom** circuit breaker to turn **Zoom** off.
7. Using a T30 Torx driver, remove the two screws (AN) that secure the front head cover (G) (Figure 17). Save the screws and cover.
8. Using a T25 Torx driver, remove the three screws (AA) that secure the **Zoom** push handle assembly (R) to the head end litter weldment and remove the **Zoom** push handle assembly (R) (Figure 71). Save the screws.
9. Using a T30 Torx driver, remove the three screws (E) that secure the **Zoom** push handle (A) to the bumper (B) and remove the pivot plate (D) (Figure 73). Save the pivot plate and screws.

Note - When you reinstall the **Zoom** push handle assembly, make sure that you apply **Syn-Tech** grease to the pivot area of the handle.

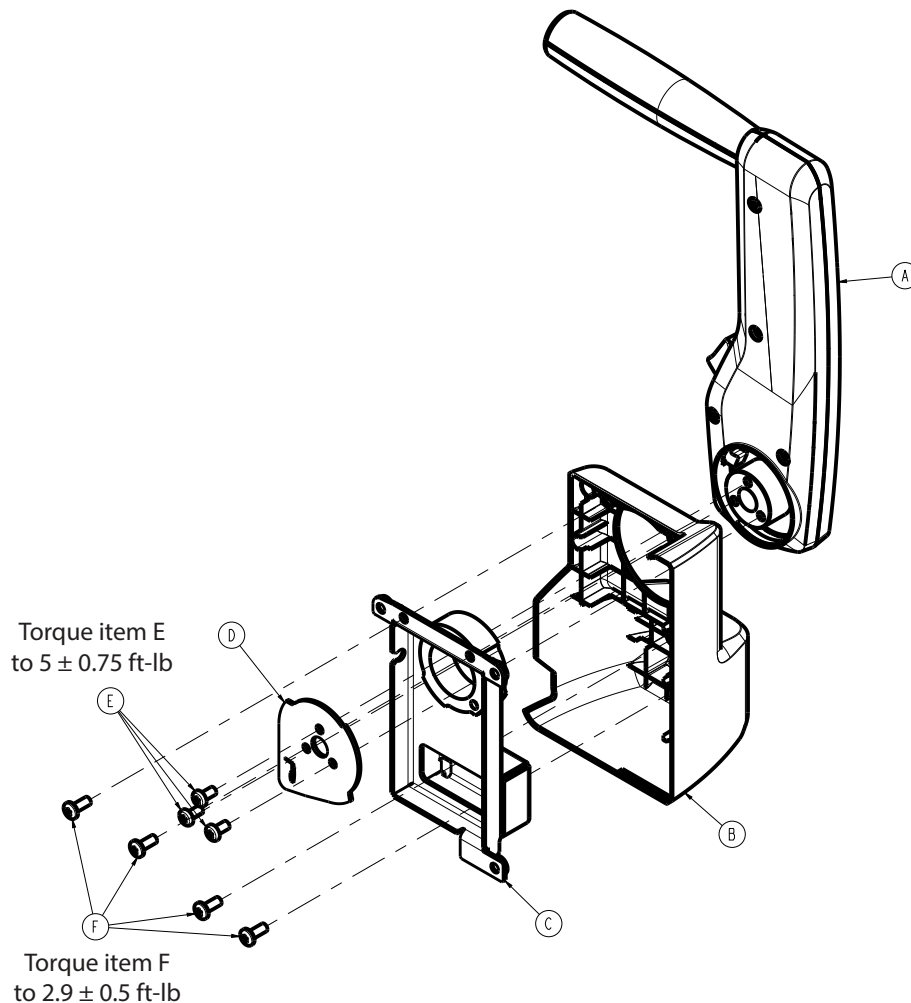


Figure 73 – Removing the Zoom push handle

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

HAVASU™ IV pole, two-stage, single attachment

Tools required:

- 5/32" hex wrench

- Tape measure

Procedure:

1. Push down on the brake pedal to apply the brake.
2. Raise the product to the highest height position.
3. Unplug the product from the wall outlet.
4. Turn off the battery disconnect switch to turn the product off.
5. Remove the headboard.
6. At the head end of the product, attach the IV pole on the chosen side with the base down so that it rests on the litter frame.
7. Using a 5/32" hex wrench, tighten the set screw (C) to secure the IV receptacle (F) to the bed IV post (Figure 74).

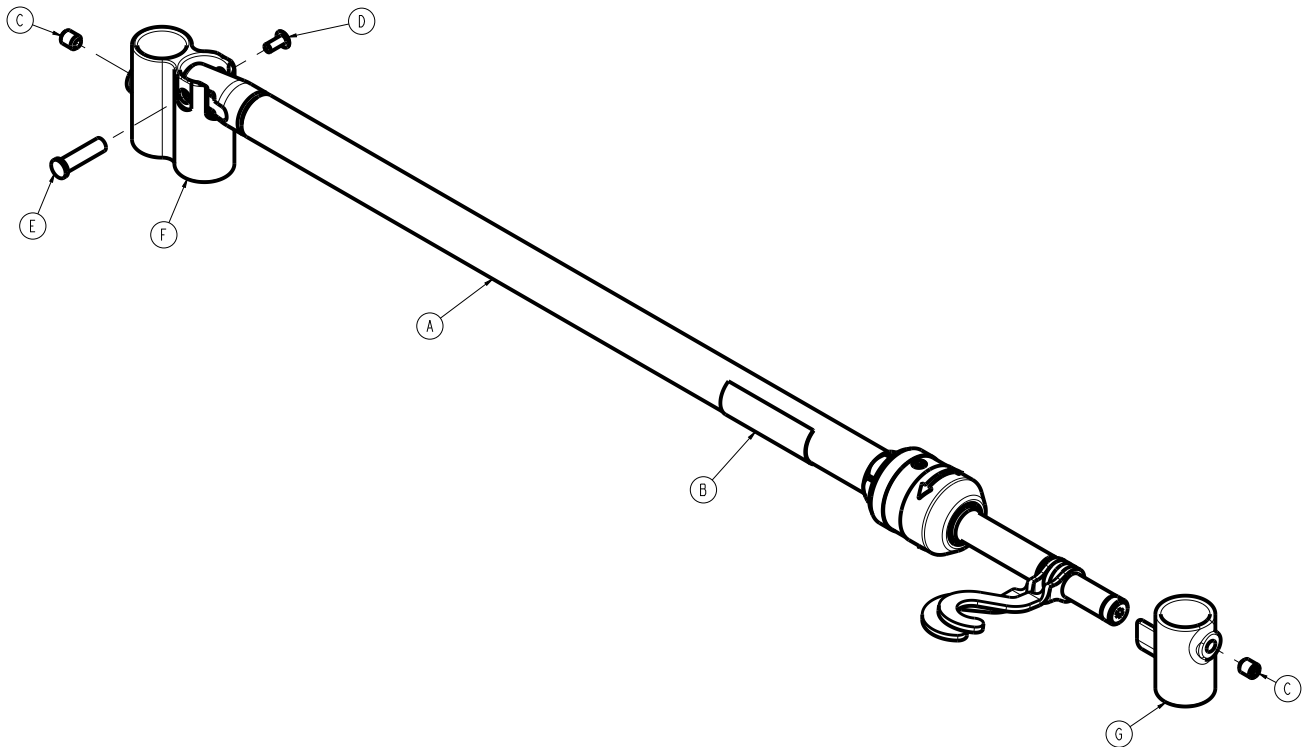


Figure 74 – Attaching the single IV pole

8. Attach the IV rest (G) on the opposite side, so that the IV pole (A) sets into the IV rest (G).
 9. Using a 5/32" hex wrench and a tape measure, tighten the set screw (C) to secure the IV rest (G) to the bed IV post.
- Note** - Make sure that the IV rest (G) is secured 1-1/4" down from the top of the bed IV post.
10. Reverse steps 1-5.
 11. Verify proper operation before you return the product to service.

HAVASU IV pole attachment, two-stage, dual

Tools required:

- 5/32" hex wrench

Procedure:

1. Push down on the brake pedal to apply the brake.
2. Raise the product to the highest height position.

3. Unplug the product from the wall.
4. Turn off the battery disconnect switch to turn the product off.
5. Remove the headboard.
6. At the head end of the product, attach the IV pole (short IV pivot) on the chosen side with the base down so that it rests on the litter frame.
7. Using a 5/32" hex wrench, tighten the set screw (D) to secure the bottom IV receptacle (A) to the bed IV post (Figure 75).

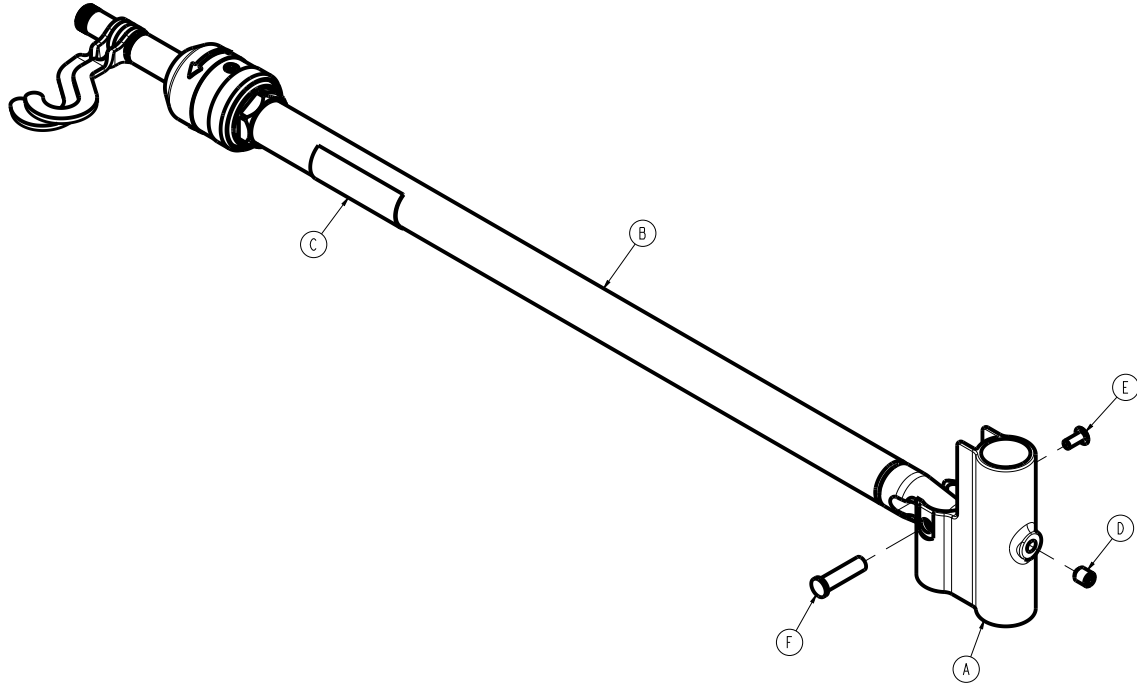


Figure 75 – Attaching the dual IV pole, bottom

8. Attach the IV pole (tall IV pivot) on the opposite side with the base down so that it rests on the litter frame.
9. Using a 5/32" hex wrench, tighten the set screw (D) to secure the top IV receptacle (B) to the bed IV post (Figure 76).

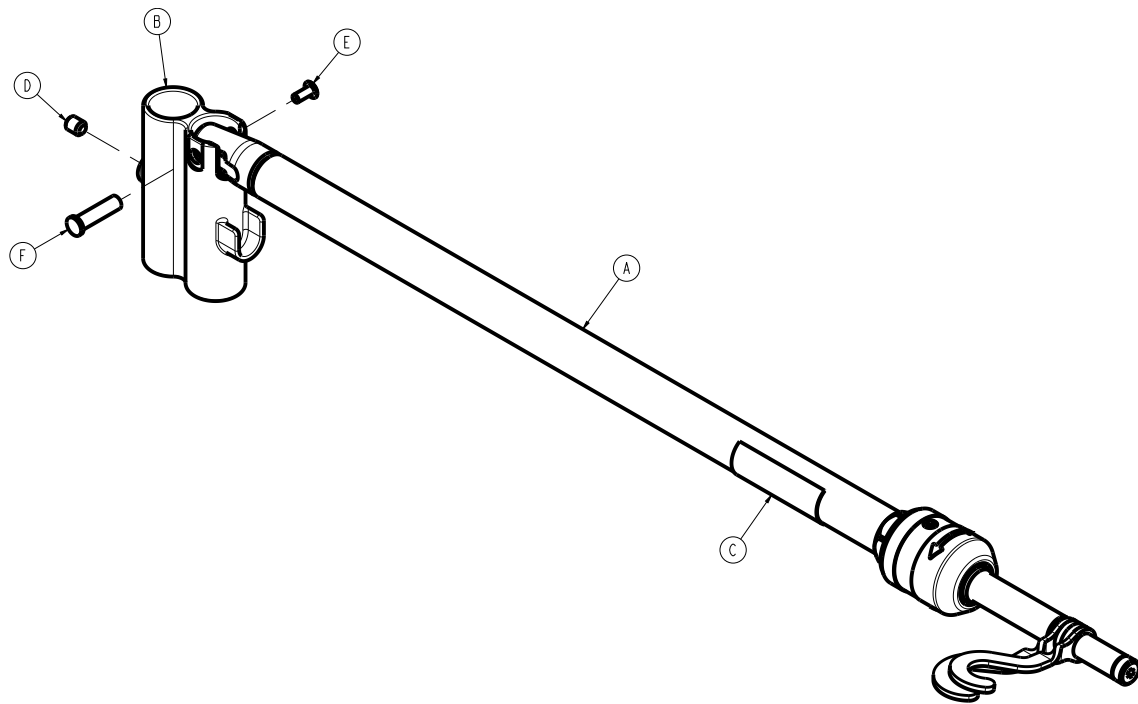


Figure 76 – Attaching the dual IV pole, top

10. Reverse steps 1-5.

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

Patient helper bracket attachment

A minimum of two operators is recommended for this task.

Tools required:

- 9/16" combination wrench
- 9/16" socket
- Torque wrench (in-lb)
- Ratchet
- Small slotted screwdriver

Note - Available for non-Zoom models only.

Procedure:

1. Push down on the brake pedal to apply the brake.
2. Raise the product to the highest height position.
3. Unplug the product from the wall outlet.
4. Turn off the battery disconnect switch to turn the product off.
5. Using a small slotted screwdriver, remove the four litter plugs toward the head end of the product. See the hex screws (E) for the litter plug locations (Figure 77). Discard the litter plugs.
6. Hold the patient helper weldment (A), with help from another person, upright at the head end of the product.
7. Insert the four hex screws (E) through the patient helper weldment (A) and litter frame and thread on the four hex nuts (F).

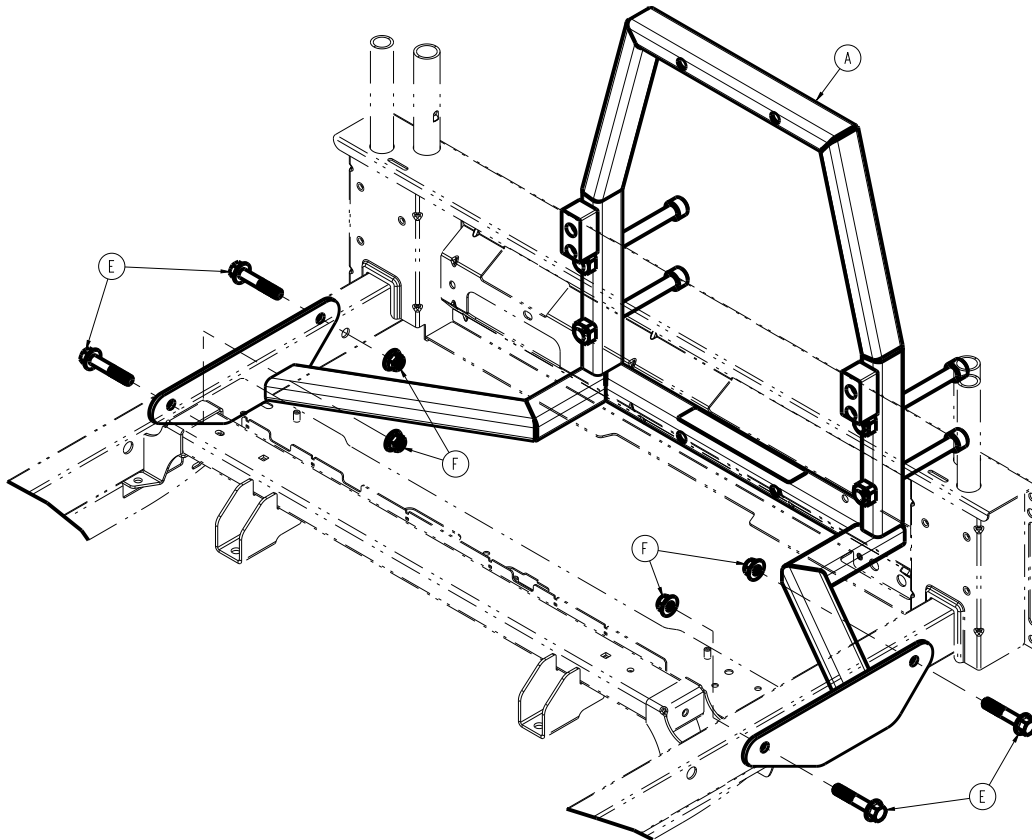


Figure 77 – Attaching the patient helper bracket

8. Using a 9/16" combination wrench, ratchet, and 9/16" socket, tighten the four hex screws (E) and four hex nuts (F).

Note - Do not pinch cables during fastener assembly.

9. Using a torque wrench, 9/16" socket, and 9/16" combination wrench, torque the four hex screws (E) and four hex nuts (F) to 48-72 in-lb.
10. Reverse steps 1-4.
11. Verify proper operation before you return the product to service.

Roller bumper attachment

Tools required:

- 1/8" hex wrench

Procedure:

Note - The roller bumper is not available for the **Zoom** option.

1. Push down on the brake pedal to apply the brake.
2. Raise the product to the highest height position.
3. Unplug the product from the wall.
4. Turn off the battery disconnect switch to turn the product off.
5. Remove the headboard.
6. For products equipped with **HAVASU** IV pole options, see *HAVASU™ IV pole, two-stage, single attachment* (page 89) or *HAVASU IV pole attachment, two-stage, dual* (page 90) for removal instructions.
7. At the head end of the product, attach the roller bumper (A) to the bed IV post (Figure 78).

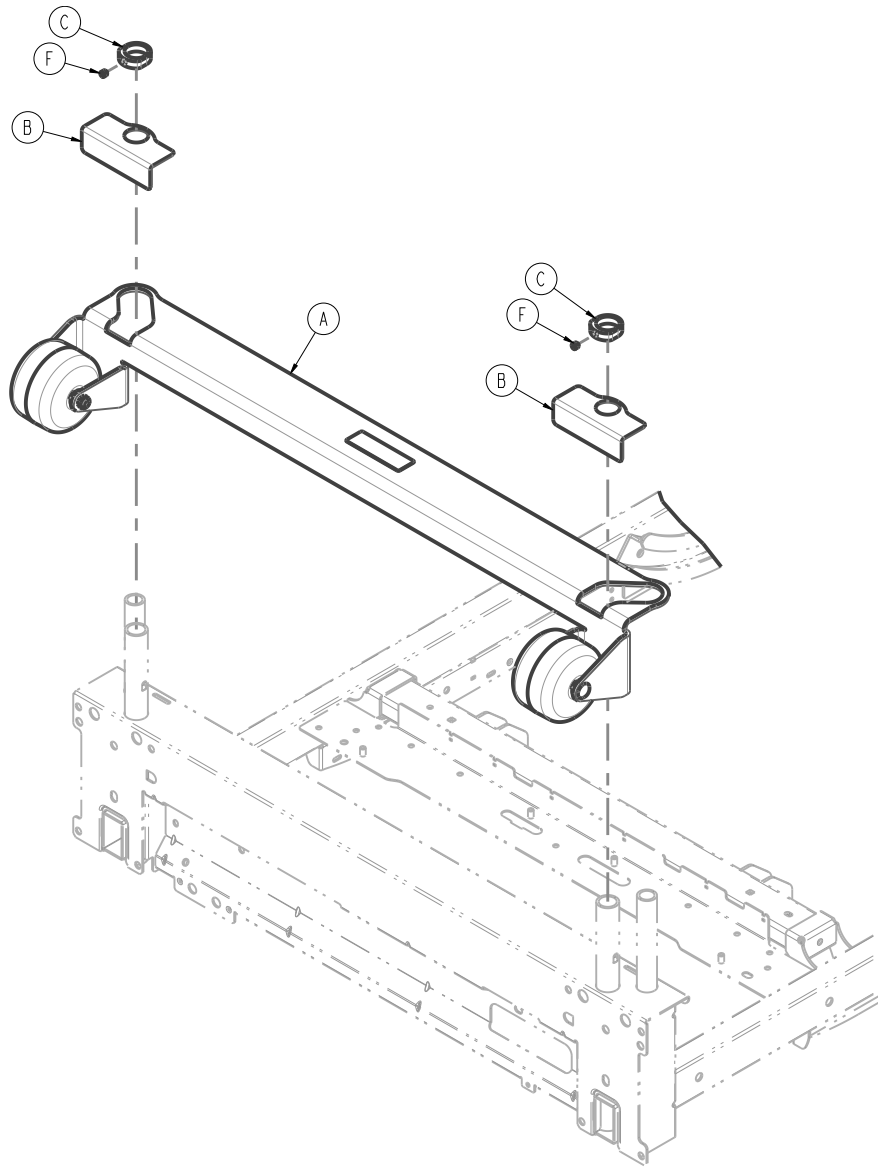


Figure 78 – Attaching the roller bumper

8. Slide the retaining bracket (B) over each side of the roller bumper (Figure 78).
9. Slide the lock collar (C) over each side of the roller bumper (Figure 78).
10. For products equipped with **HAVASU** IV pole options, see ***HAVASU™** IV pole, two-stage, single attachment* (page 89) or ***HAVASU** IV pole attachment, two-stage, dual* (page 90) for reinstallation instructions.
11. While you press down on the lock collar (C), use the 1/8" hex wrench to tighten the set screw (F) (Figure 78). If your product is equipped with the IV pole option, use the base of the IV pole to push down on the lock collar (C).
12. Verify proper operation before you return the product to service.

Pendant attachment, basic or advanced

Tools required:

- T30 Torx driver

Procedure:

1. Push down on the brake pedal to apply the brake.

2. Raise the product to the highest height position.
3. Raise the Fowler to the full up position.
4. Unplug the product from the wall.
5. Turn off the battery disconnect switch to turn the product off.
6. Raise the head end patient right siderail to the up and locked position.
7. Using a T30 Torx driver, remove the two screws (F) that secure the pendant connector (E) to the Fowler (Figure 79).

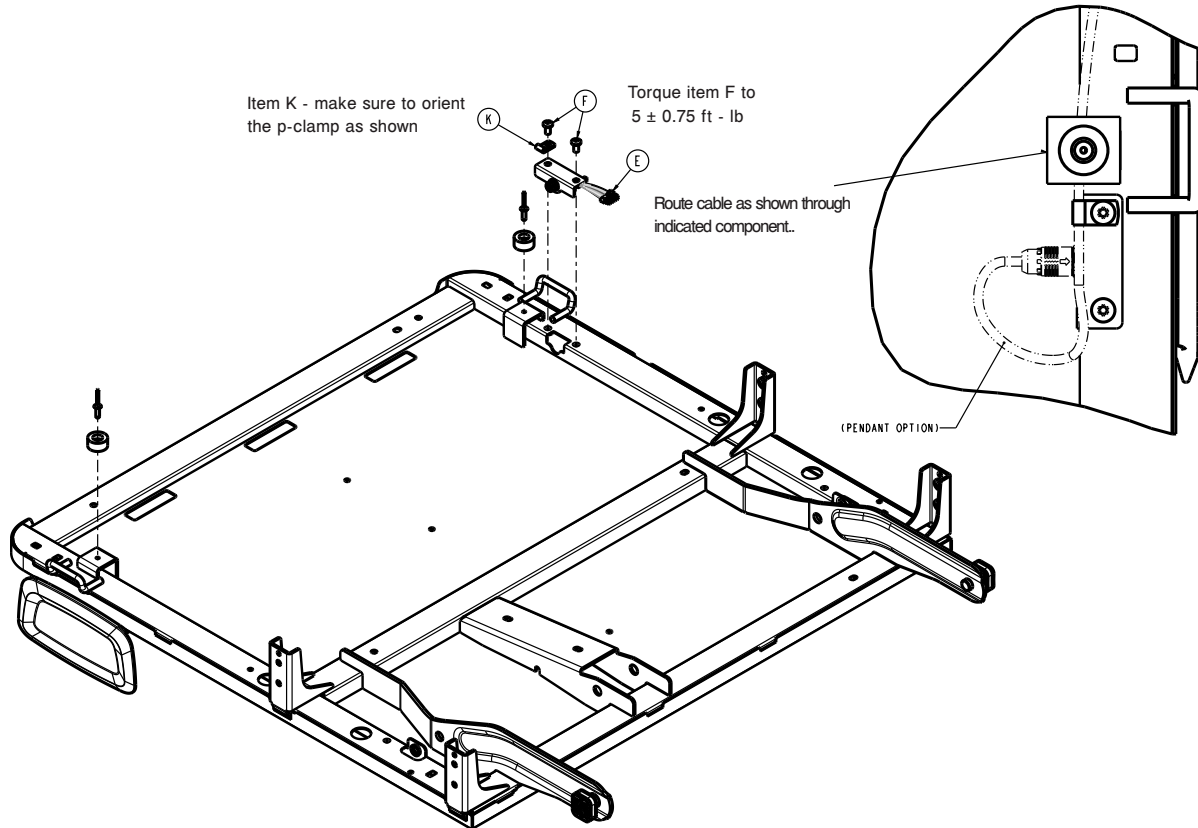


Figure 79 – Attaching the pendant

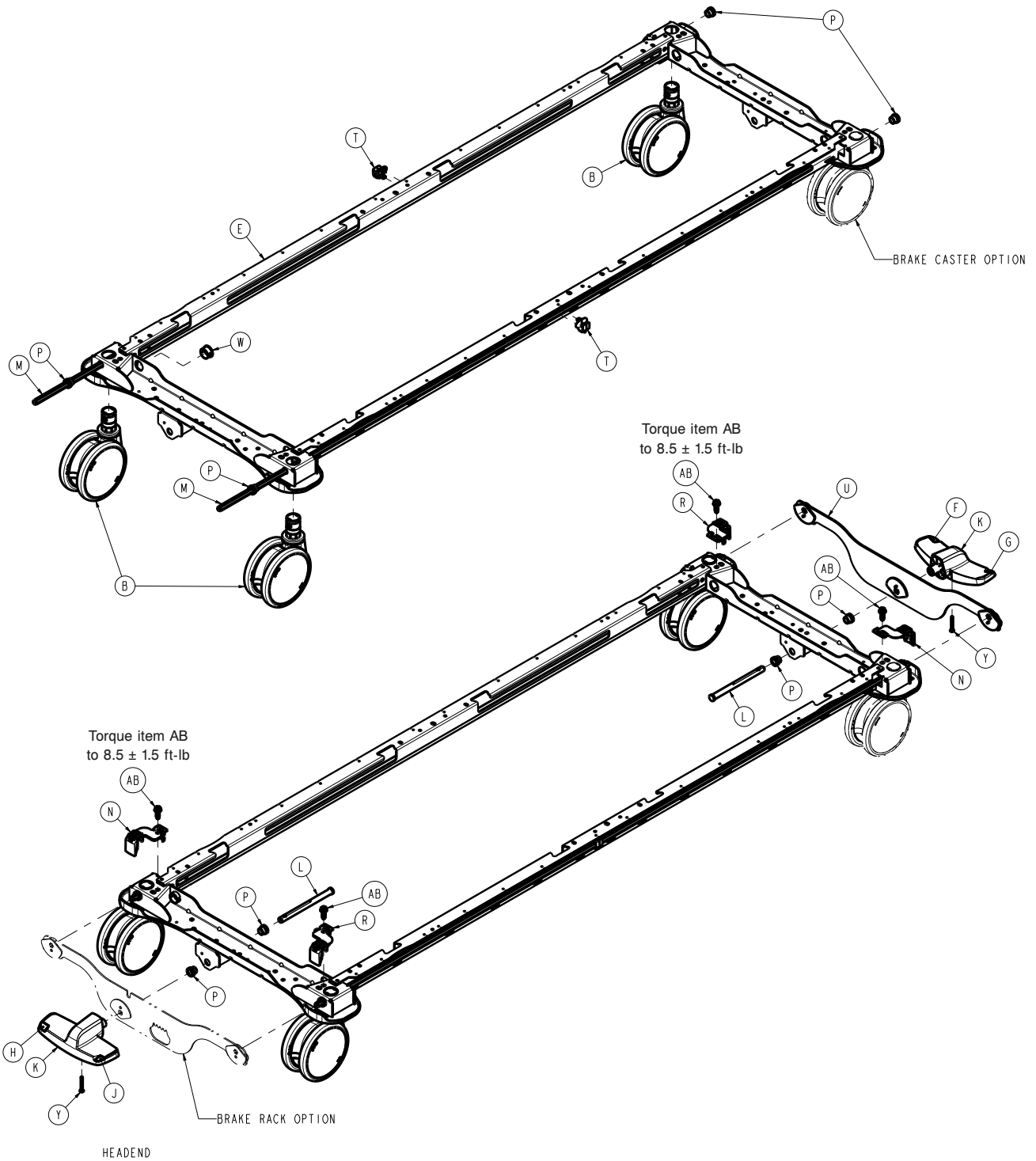
8. Route the pendant cable through the Fowler weldment (Figure 79).
9. Using a T30 Torx driver, install the two screws (F) that secure the pendant connector (E) to the Fowler (Figure 79).

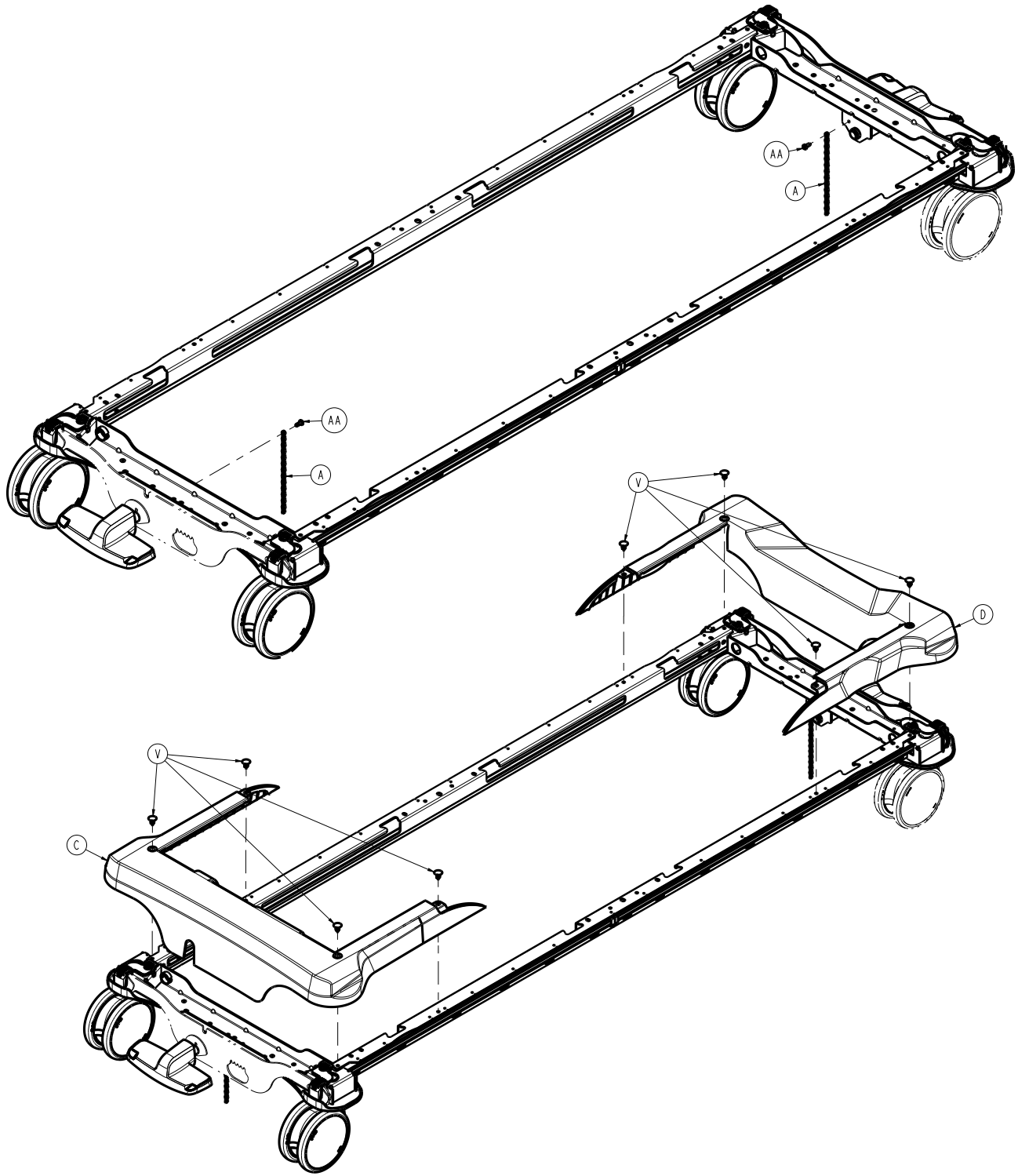
Note - When you install the head end screw, install the supplied p-clamp (K) over the pendant cable. Leave a service loop, and then tighten the screw (Figure 79).

10. Plug in the pendant to the pendant port.
11. Plug the product into the wall.
12. Turn on the battery disconnect switch to turn the product on.
13. At the footboard display, enter the service screen to modify the bed configuration by enabling the pendant option.
14. Exit out to the Home screen.
15. Verify proper operation before you return the product to service.

Base/brakes common components assembly

300900010200 Rev AB (Reference only)



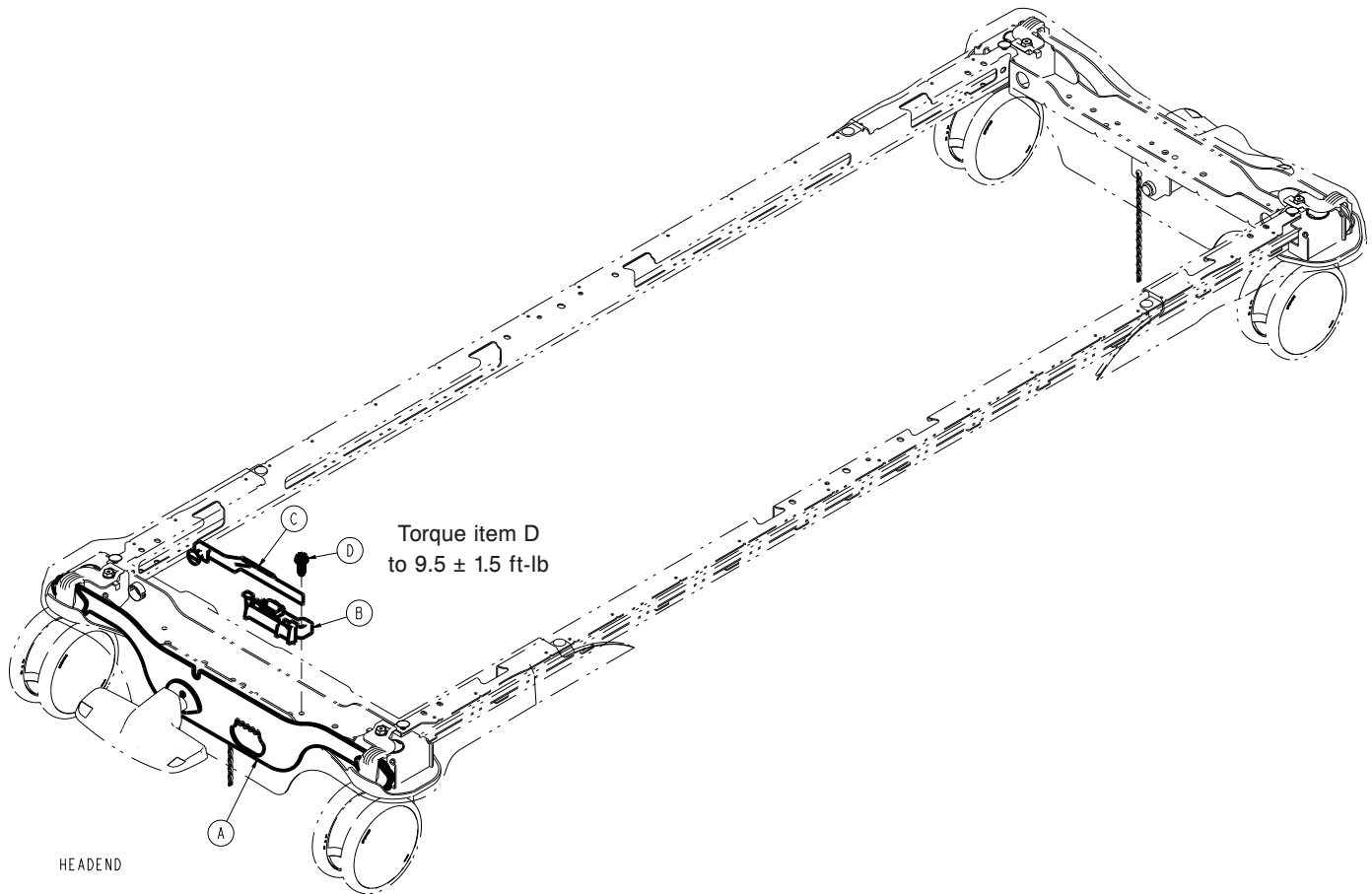


| Item | Number | Name | Quantity |
|------|--------------|------------------------------------|----------|
| A | 300900010011 | Base ground chain | 2 |
| B | 300900010021 | Base standard caster | 3 |
| C | 300900010031 | Base cover, head end | 1 |
| D | 300900010032 | Base cover, foot end | 1 |
| E | 300900010100 | Base weldment | 1 |
| F | 300900030006 | Label, foot end brake pedal, green | 1 |
| G | 300900030007 | Label, foot end brake pedal, red | 1 |

| Item | Number | Name | Quantity |
|------|--------------|------------------------------------|----------|
| H | 300900030008 | Label, head end brake pedal, green | 1 |
| J | 300900030009 | Label, head end brake pedal, red | 1 |
| K | 300900030011 | Brake pedal | 2 |
| L | 300900030012 | Brake pedal shaft | 2 |
| M | 300900030023 | Brake hex shaft | 2 |
| N | 300900030024 | Brake hex shaft retainer, left | 2 |
| P | 300900030026 | Brake shaft flange bearing | 8 |
| R | 300900030027 | Brake hex shaft retainer, right | 2 |
| T | 300900030028 | Brake hex shaft spacer | 2 |
| U | 300900030065 | Foot end brake rack assembly | 1 |
| V | 300900010009 | Push-in tree clip | 8 |
| W | 700000493196 | Bushing | 1 |
| Y | 700000533859 | Pan head thread forming screw | 2 |
| AA | 700000668696 | Pan head thread cutting screw | 2 |
| AB | 0023-288-000 | Hex washer head screw | 4 |

Manual brakes base assembly

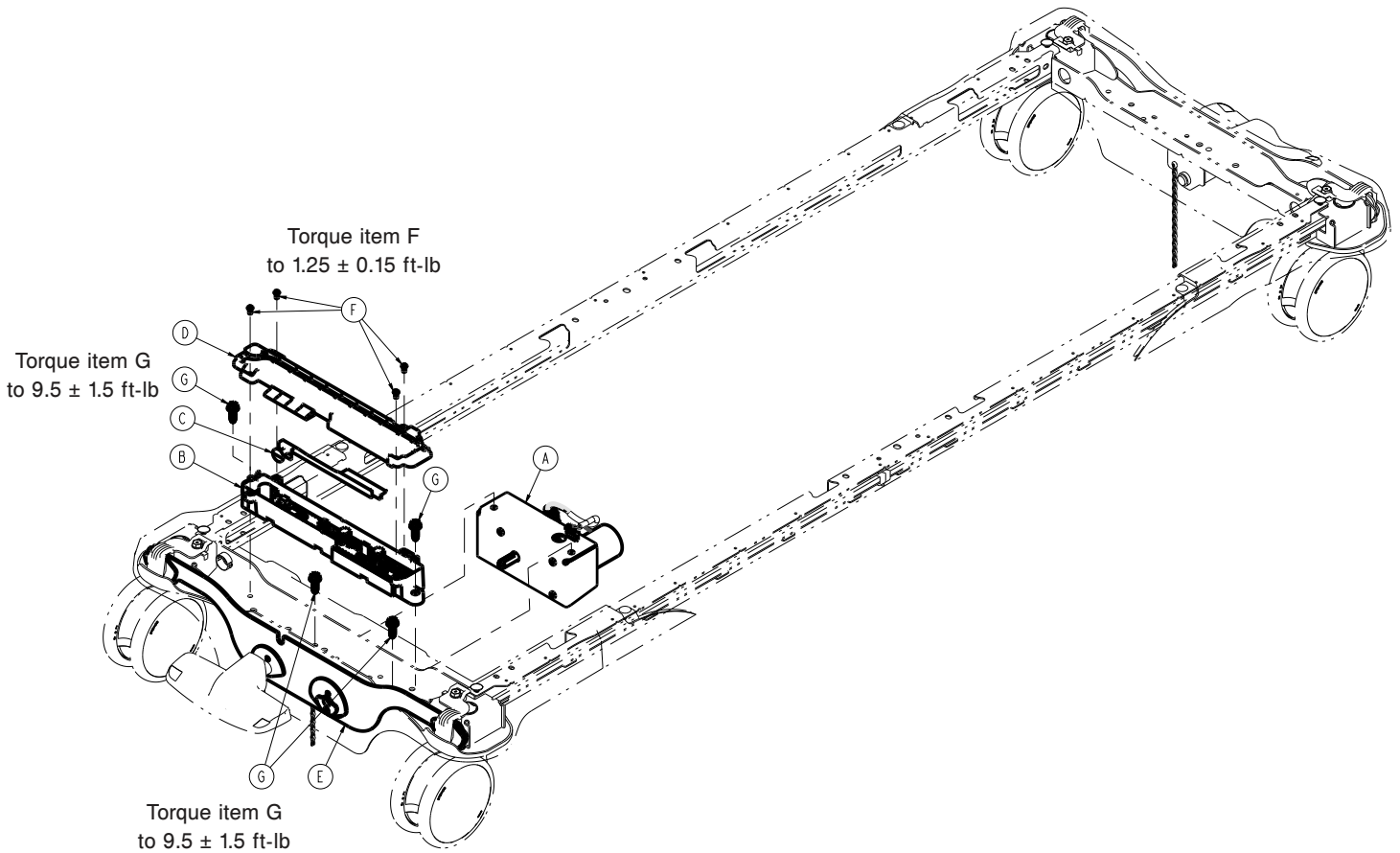
300900030100 Rev AB (Reference only)



| Item | Number | Name | Quantity |
|------|--------------|--------------------------------------|----------|
| A | 300900030060 | Manual brakes rack head end assembly | 1 |
| B | 300900030140 | Manual brakes switch assembly | 1 |
| C | 300900030141 | Manual brakes cam | 1 |
| D | 0023-288-000 | Hex washer head screw | 1 |

Electric brakes common components assembly

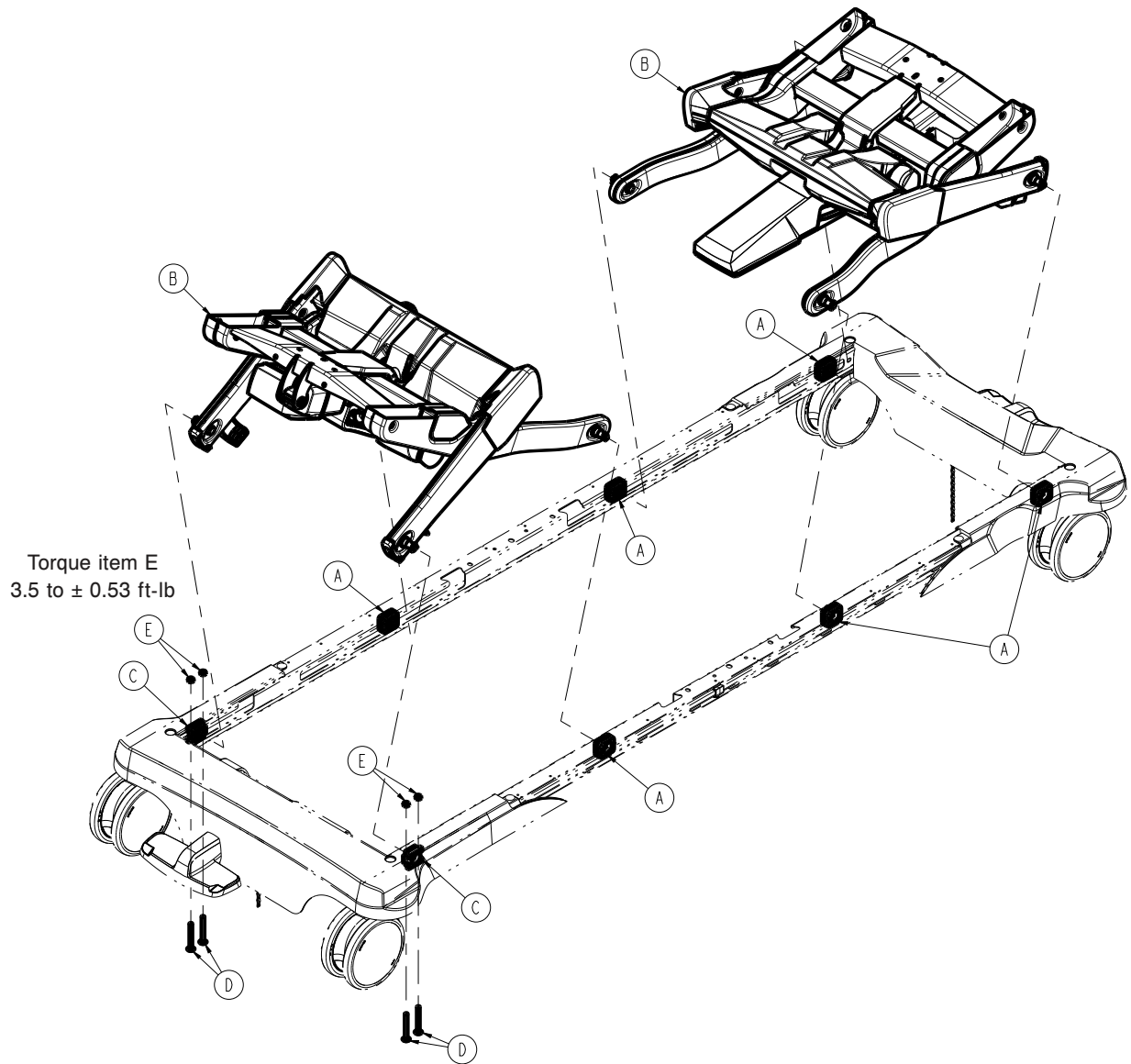
300900030300 Rev AB (Reference only)



| Item | Number | Name | Quantity |
|------|--------------|---|----------|
| A | 300900030020 | Electric brakes motor assembly | 1 |
| B | 300900030040 | Electric brakes cam enclosure assembly | 1 |
| C | 300900030041 | Electric brakes cam | 1 |
| D | 300900030042 | Electric brakes cam top enclosure | 1 |
| E | 300900030055 | Electric brakes rack assembly, head end | 1 |
| F | 0004-505-000 | Button head cap screw | 4 |
| G | 0023-288-000 | Hex washer head screw | 4 |

Lift common components assembly

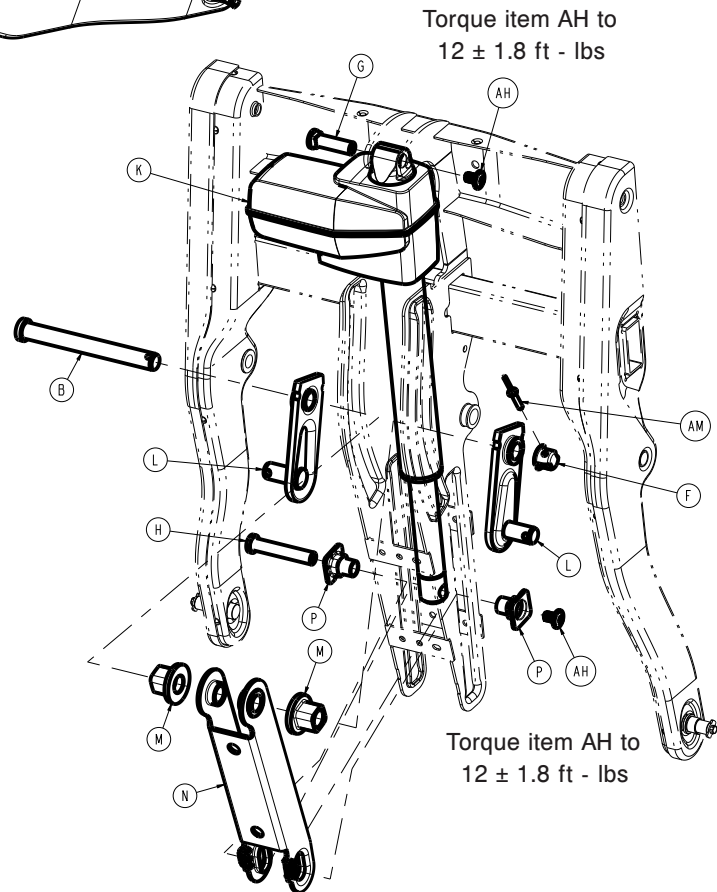
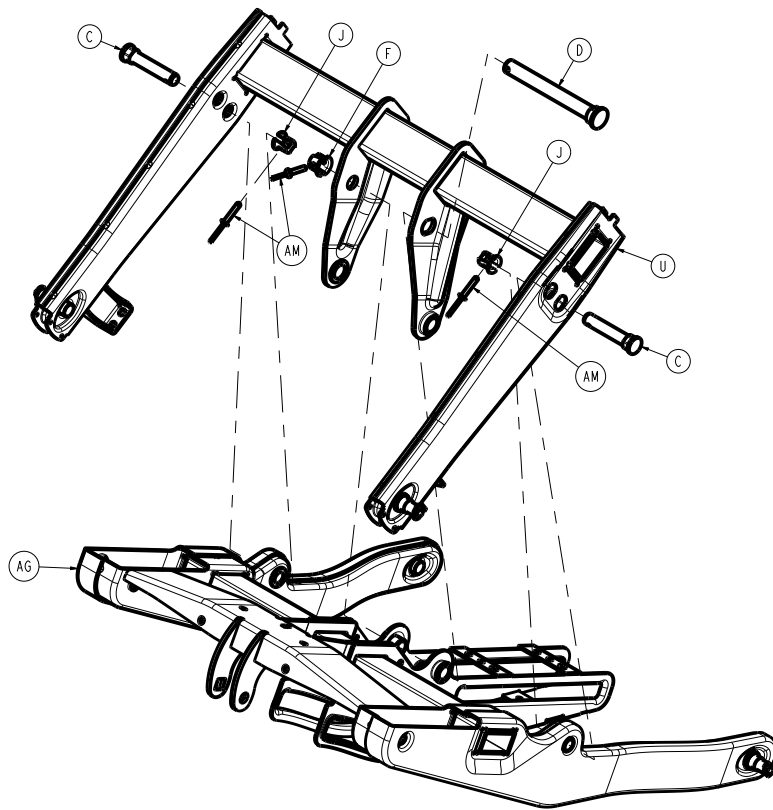
300900020250 Rev AB (Reference only)

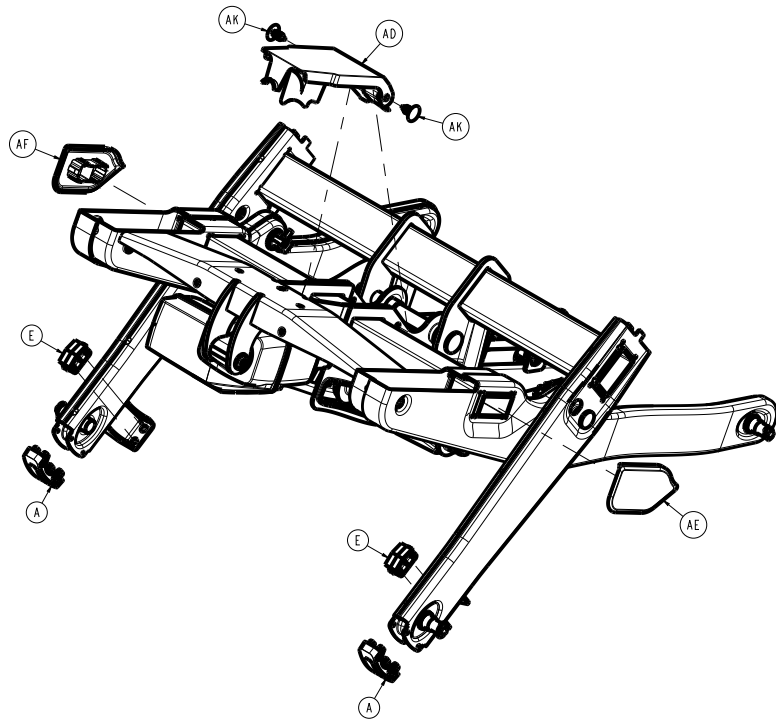
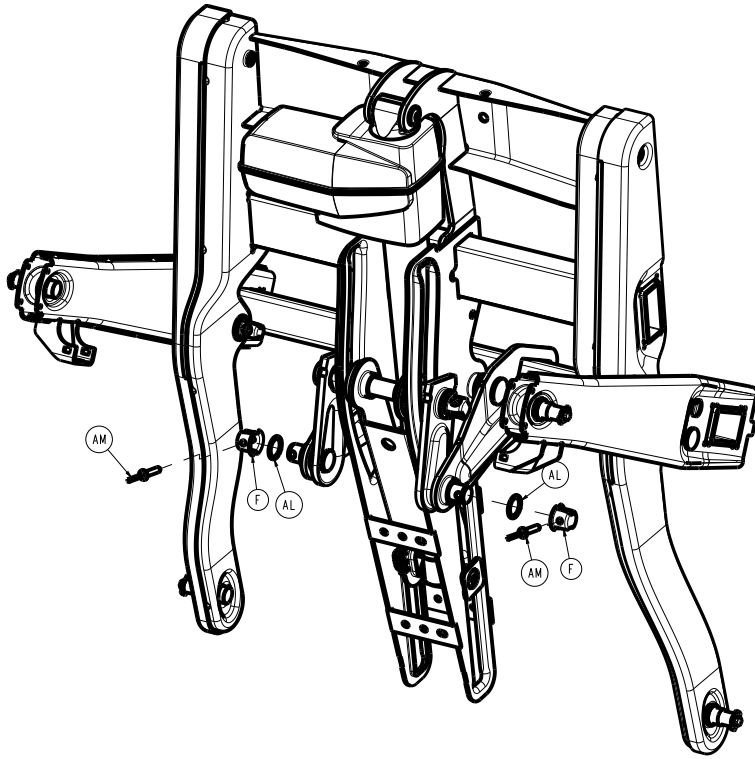


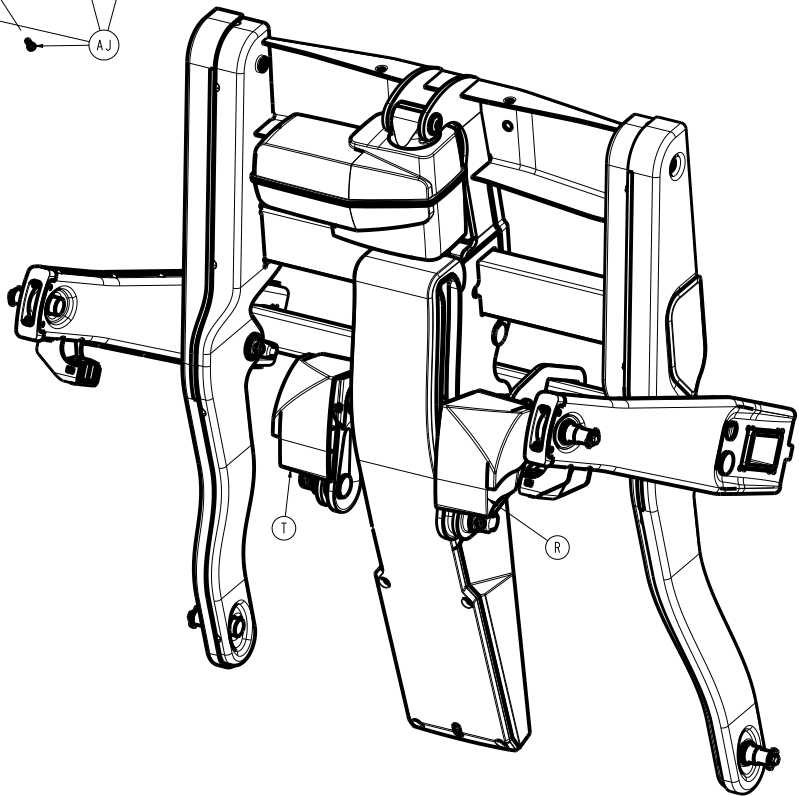
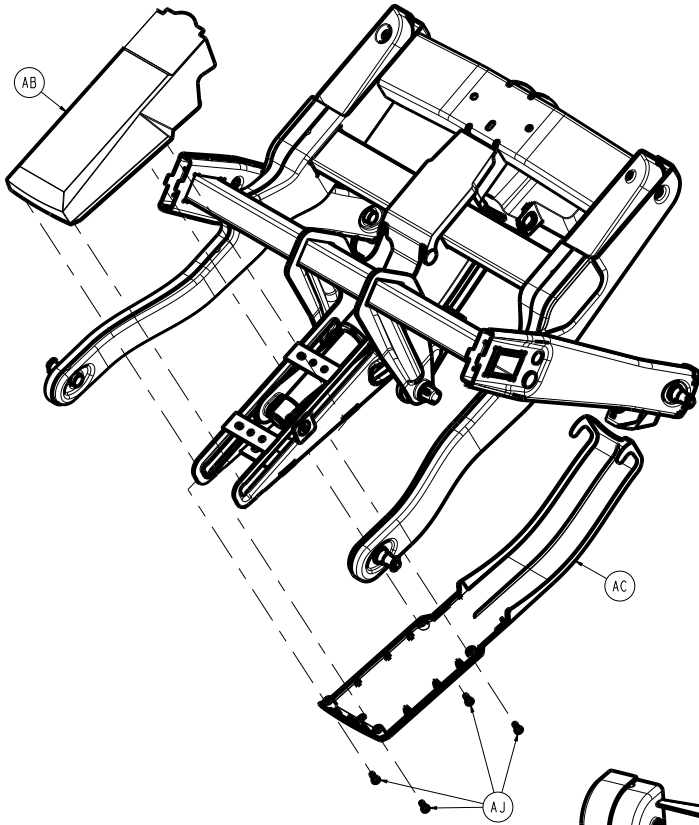
| Item | Number | Name | Quantity |
|------|--------------|---|----------|
| A | 300900020031 | Lift slider | 6 |
| B | 300900020100 | Lift assembly - 300900020100 (page 102) | 2 |
| C | 300901020032 | Lift fixed pivot | 2 |
| D | 700000333334 | Round head square neck bolt | 4 |
| E | 0016-102-000 | Nylock hex jam nut | 4 |

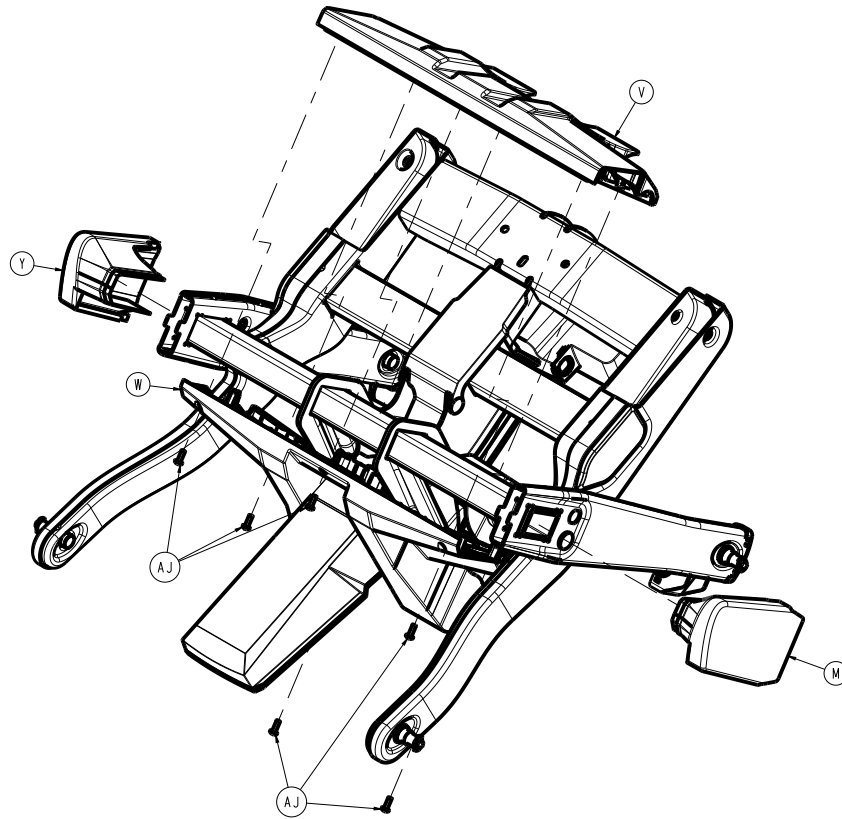
Lift assembly - 300900020100

Rev AB (Reference only)







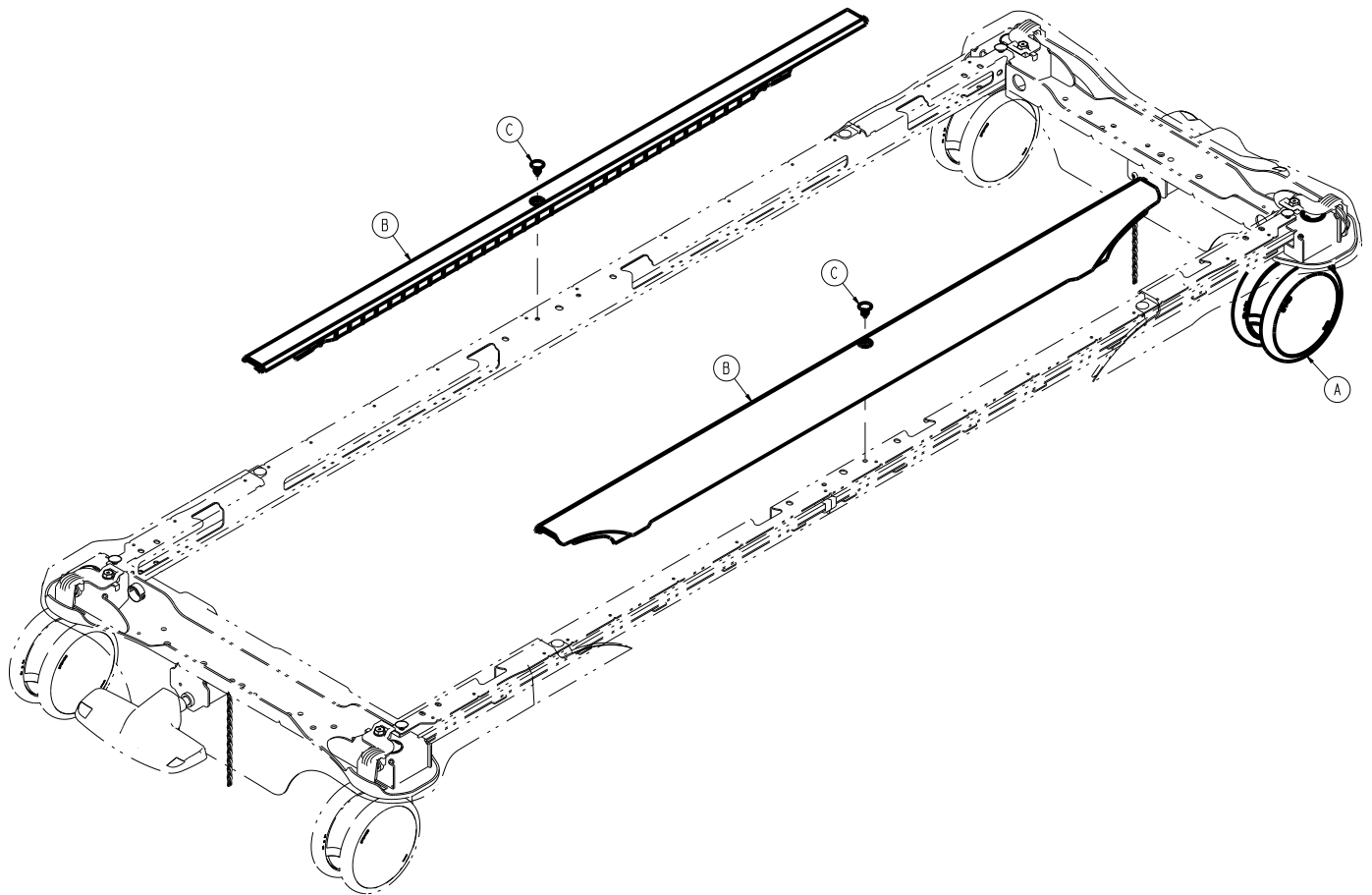


| Item | Number | Name | Quantity |
|------|--------------|--|----------|
| A | 300900020019 | Lift cable bushing | 2 |
| B | 300900020021 | Lift link pivot pin | 1 |
| C | 300900020022 | Lift lateral pivot pin | 2 |
| D | 300900020023 | Lift central pivot pin | 1 |
| E | 300900020033 | Lift hard stop | 2 |
| F | 300900020034 | Lift joint cap, big | 4 |
| G | 300900020037 | Lift actuator rear pin | 1 |
| H | 300900020038 | Lift actuator front pin | 1 |
| J | 300900020039 | Lift joint cap, small | 2 |
| K | 300900020040 | Lift actuator | 1 |
| L | 300900020050 | Compression link lift assembly | 2 |
| M | 300900020057 | Lift compression link slider | 2 |
| N | 300900020060 | Lift tension link assembly | 1 |
| P | 300900020062 | Lift tension link slider | 2 |
| R | 300900020070 | Compression link cover assembly, right | 1 |
| T | 300900020080 | Compression link cover assembly, left | 1 |
| U | 300900020120 | Lift short arm assembly | 1 |
| V | 300900020121 | Lift short arm top cover | 1 |
| W | 300900020122 | Lift short arm bottom cover | 1 |
| Y | 300900020123 | Lift short arm outer cover, right | 1 |
| AA | 300900020124 | Lift short arm outer cover, left | 1 |
| AB | 300900020171 | Lift long arm top cover | 1 |
| AC | 300900020172 | Lift long arm bottom cover | 1 |
| AD | 300900020173 | Lift long arm upper cover | 1 |

| Item | Number | Name | Quantity |
|-------------|---------------|-------------------------------|-----------------|
| AE | 300900020174 | Lift long arm end cap, right | 1 |
| AF | 300900020176 | Lift long arm end cap, left | 1 |
| AH | 700000244087 | Flanged button head cap screw | 2 |
| AJ | 700000492445 | Pan head tap flanged screw | 10 |
| AK | 300900010009 | Push-in tree clip | 2 |
| AL | 700000538326 | Washer | 2 |
| AM | 700000233246 | Rivet | 6 |

Non-Zoom brakes common components assembly

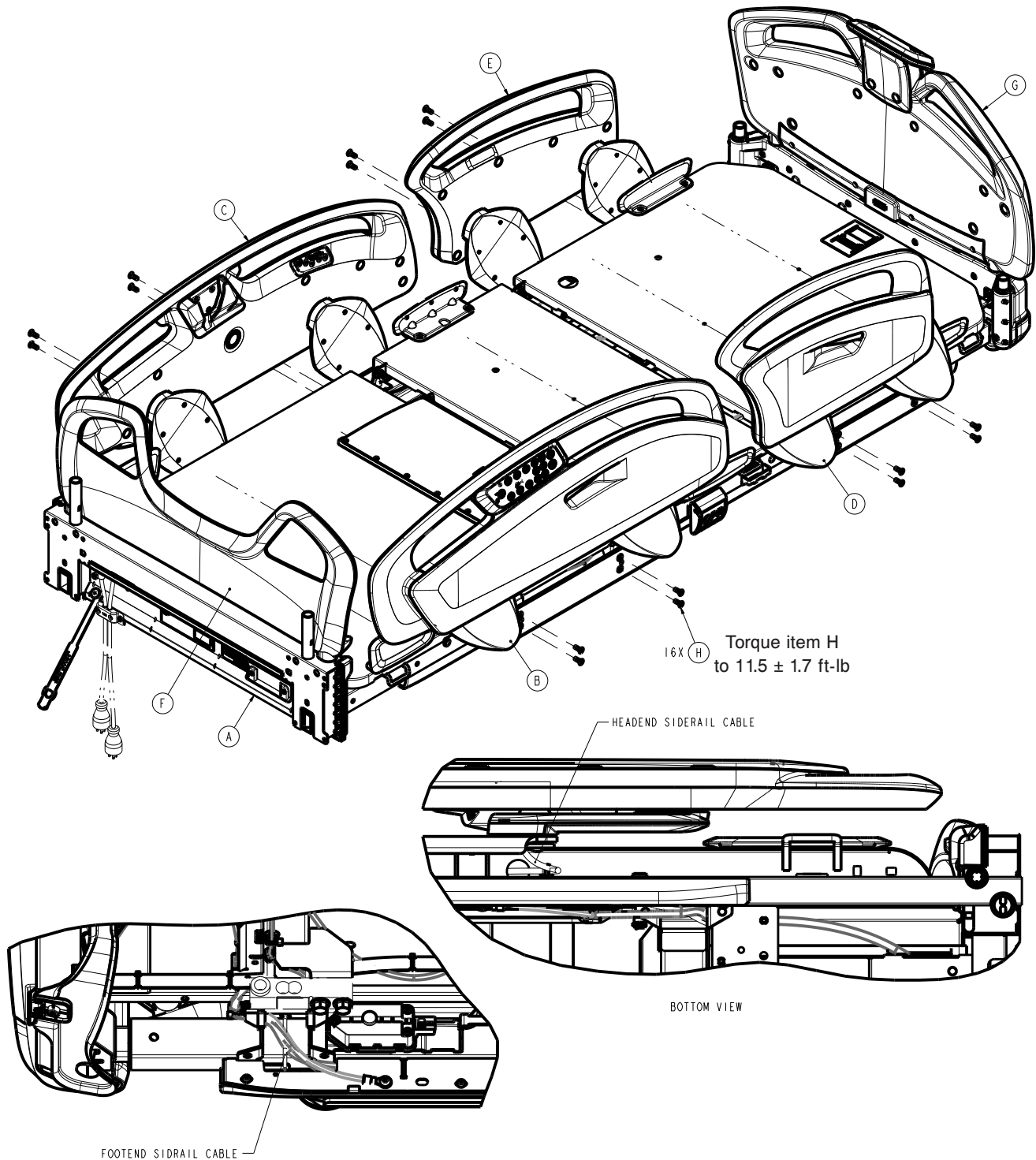
300900030200 Rev AB (Reference only)



| Item | Number | Name | Quantity |
|------|--------------|-------------------|----------|
| A | 300900010022 | Base steer caster | 1 |
| B | 300900010033 | Base rail cover | 2 |
| C | 700000492453 | Tree clip | 2 |

Litter common components assembly

300900100250 Rev AC (Reference only)

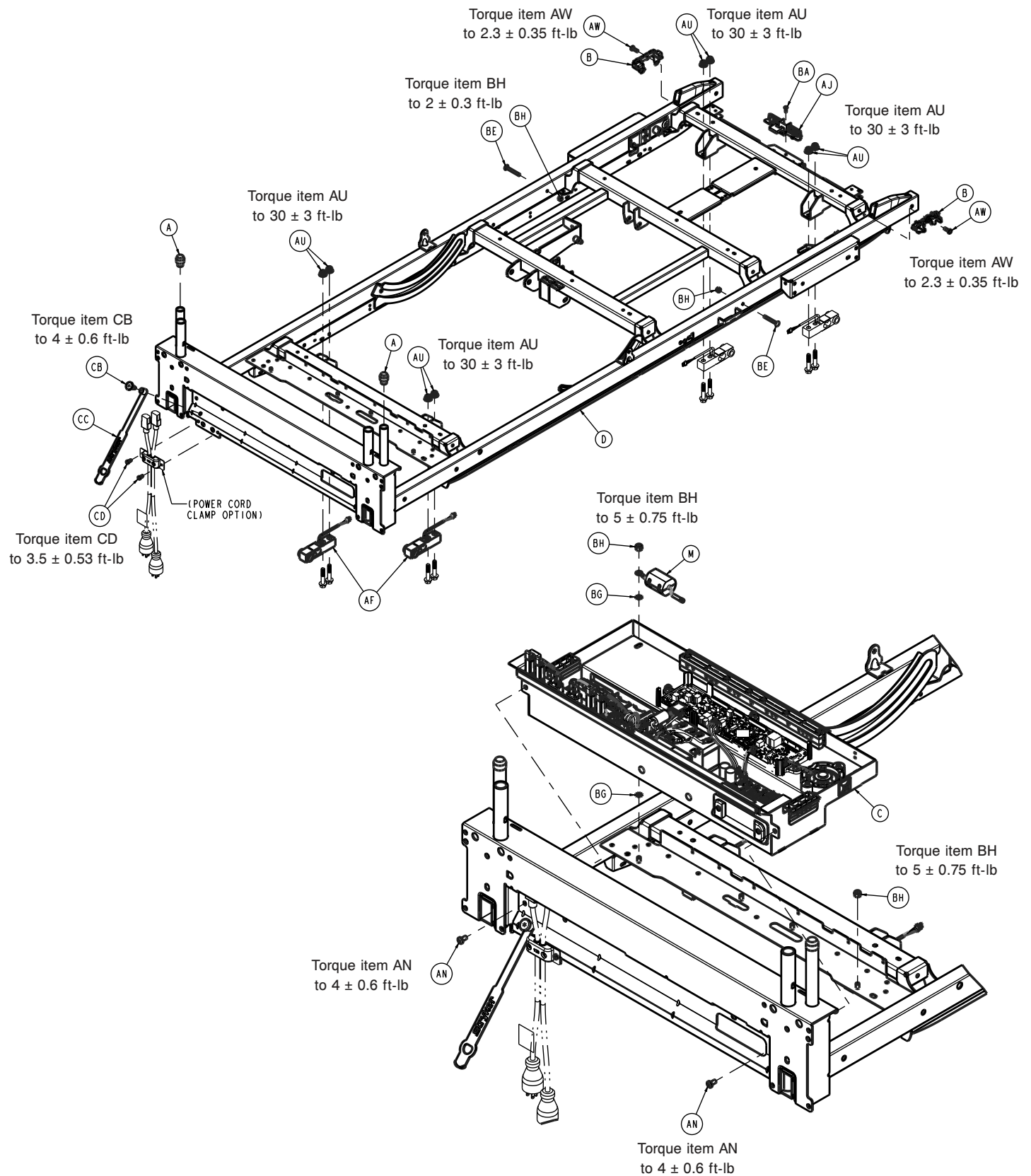


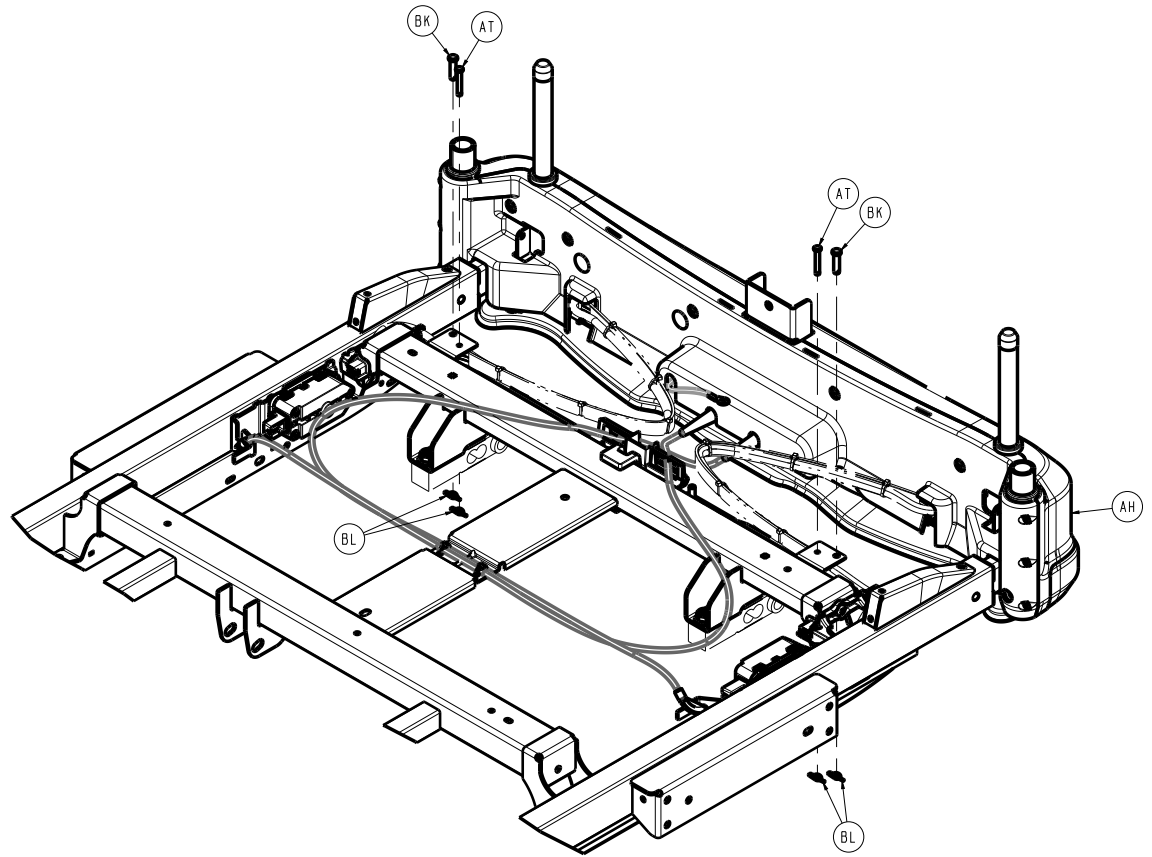
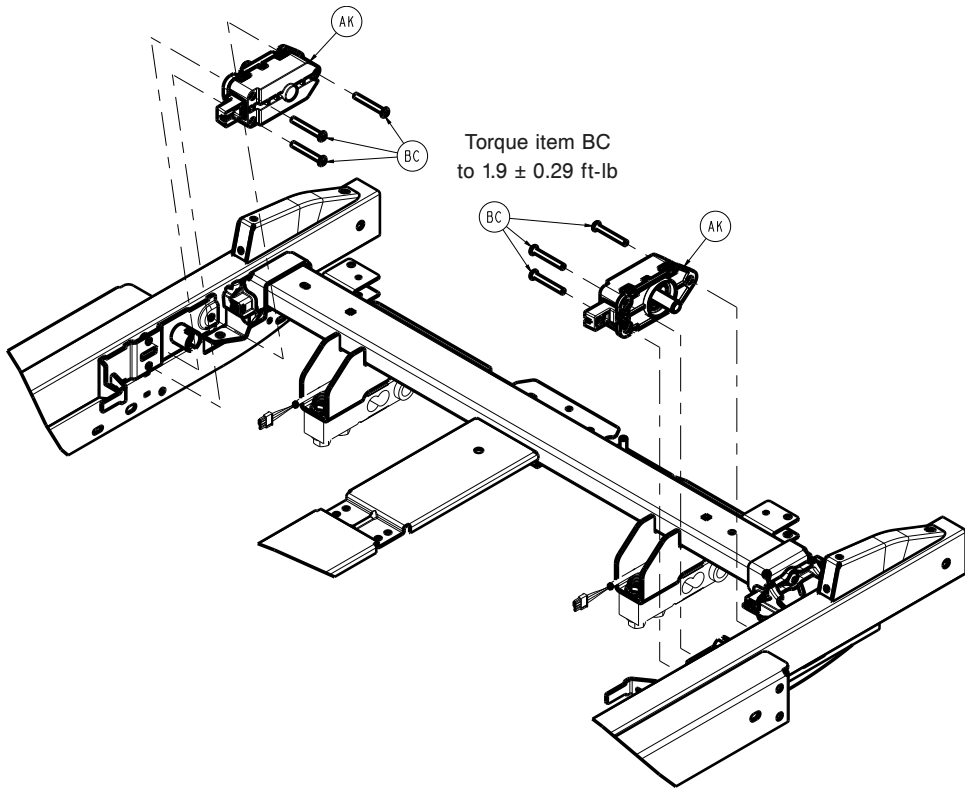
| Item | Number | Name | Quantity |
|------|--------------|---|----------|
| A | 300900100300 | Litter deck common components assembly (page 110) | 1 |
| B | 300900110100 | Siderail assembly, head end (page 179), 1 right | 1 |
| C | 300900110200 | Siderail assembly, head end (page 179), 1 left | 1 |

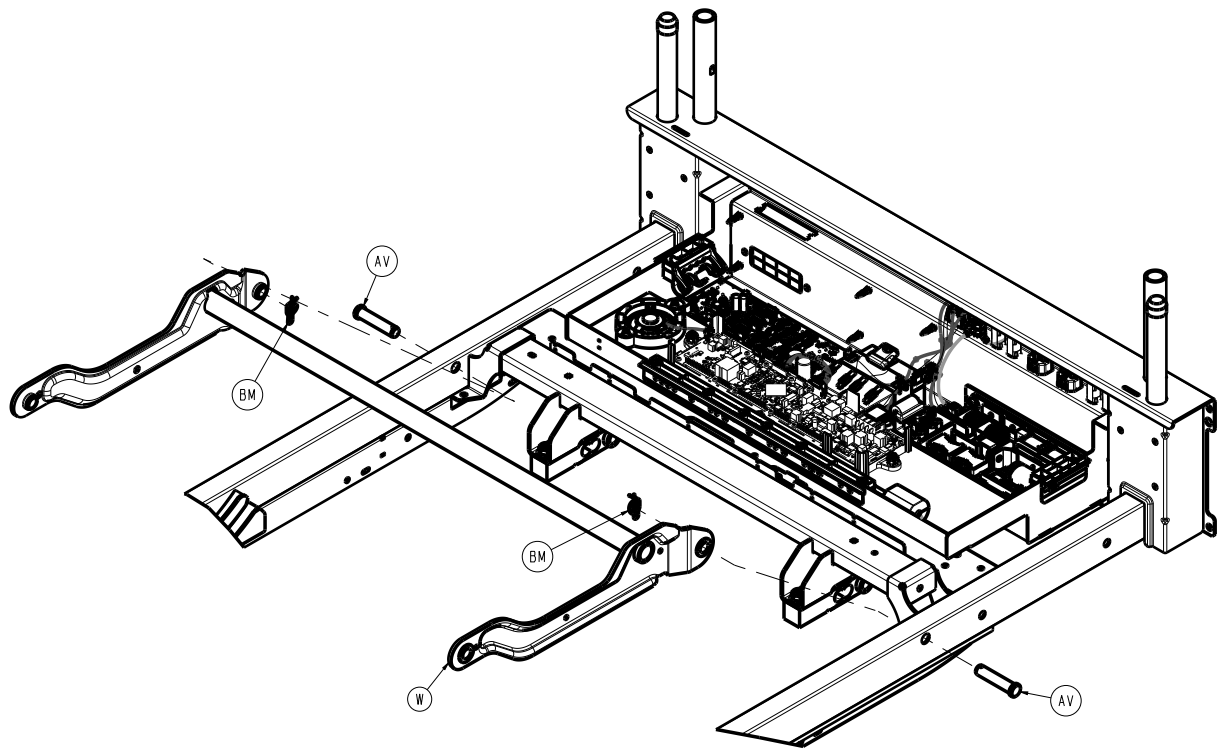
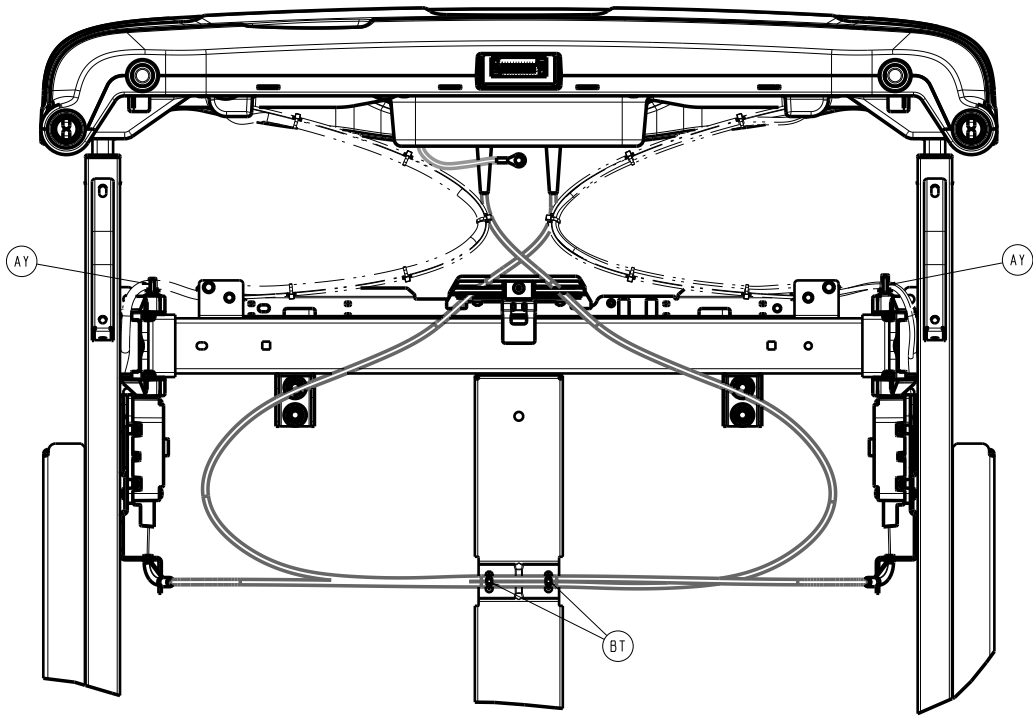
| Item | Number | Name | Quantity |
|-------------|---------------|--|-----------------|
| D | 300901110300 | <i>Siderail assembly, foot end (page 188), right</i> | 1 |
| E | 300901110400 | <i>Siderail assembly, foot end (page 188), left</i> | 1 |
| F | 300900210010 | <i>Headboard - 300900210010 (page 193)</i> | 1 |
| G | 300900220001 | <i>Footboard common components assembly (page 194)</i> | 1 |
| H | 700000625483 | Flat countersunk head machine screw | 16 |

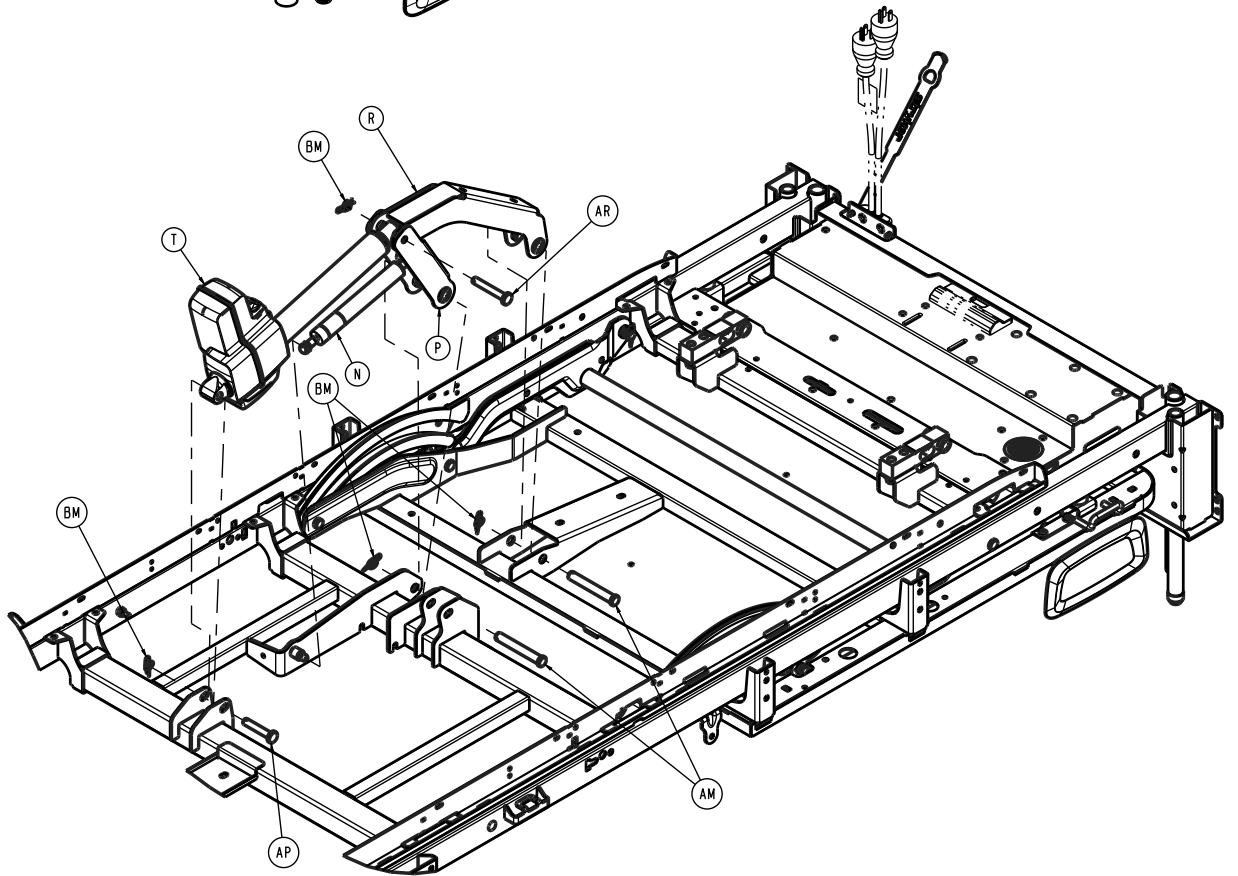
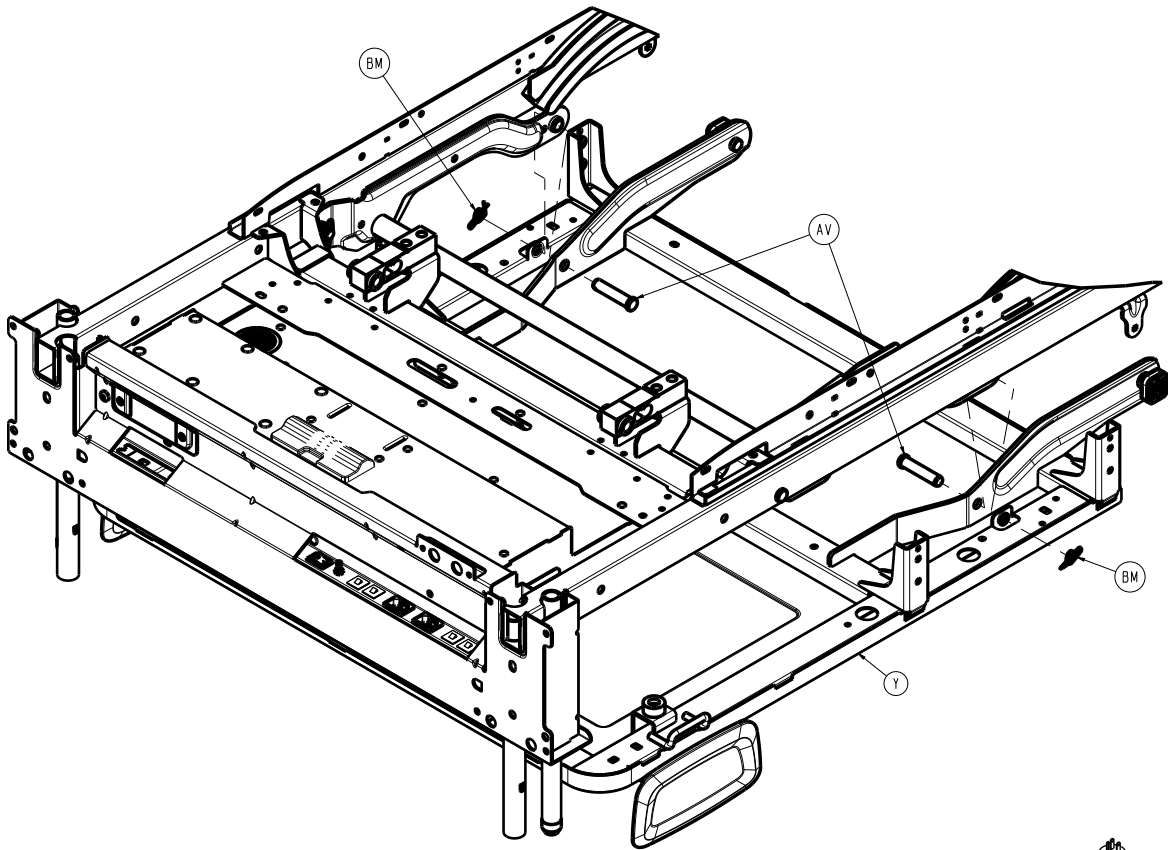
Litter deck common components assembly

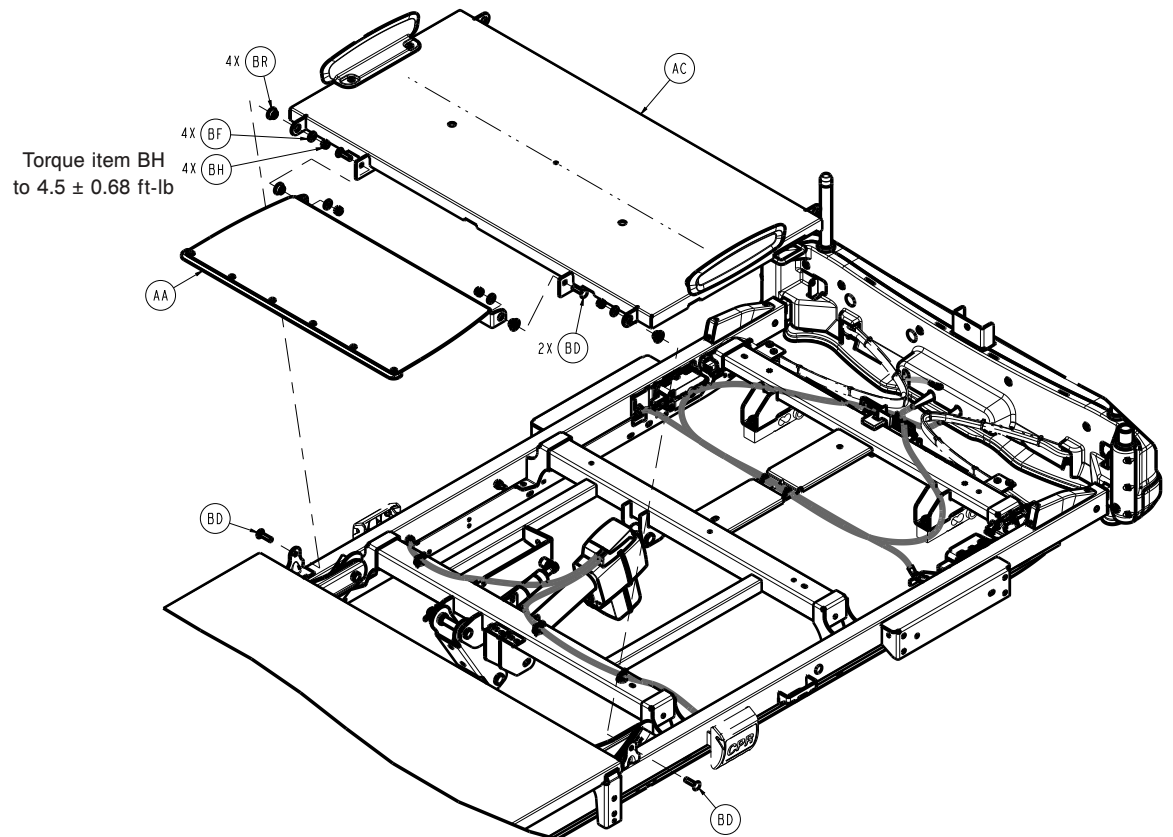
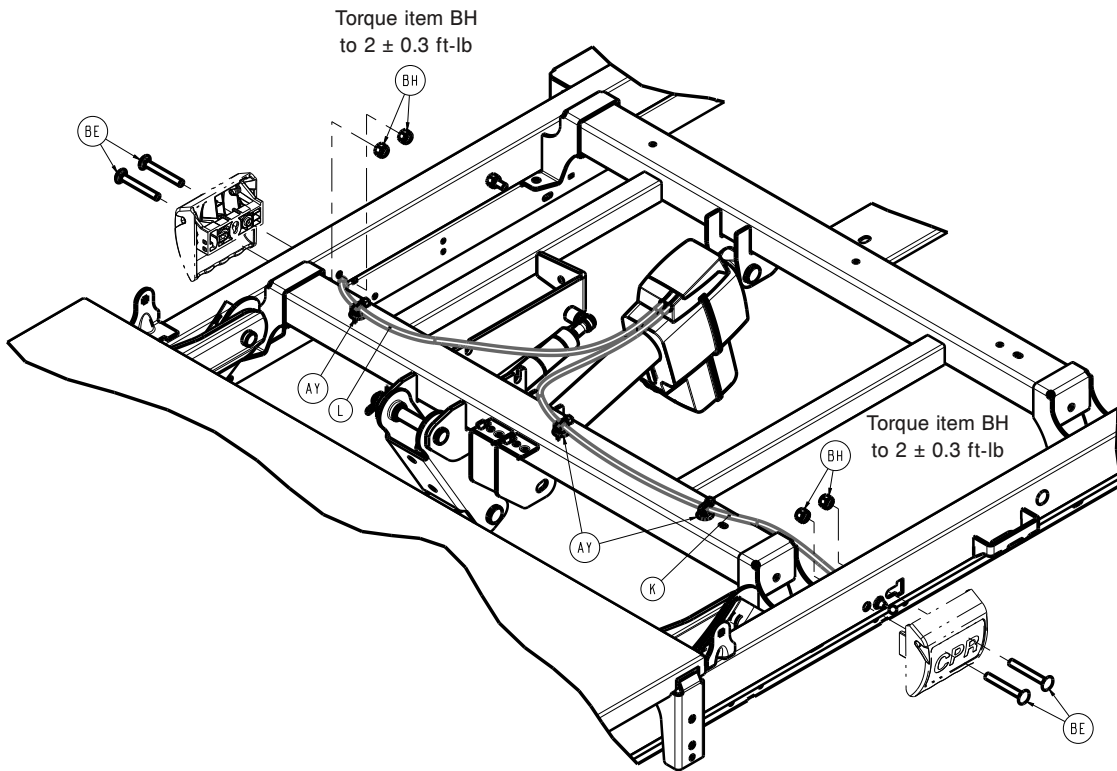
300900100300 Rev AE (Reference only)

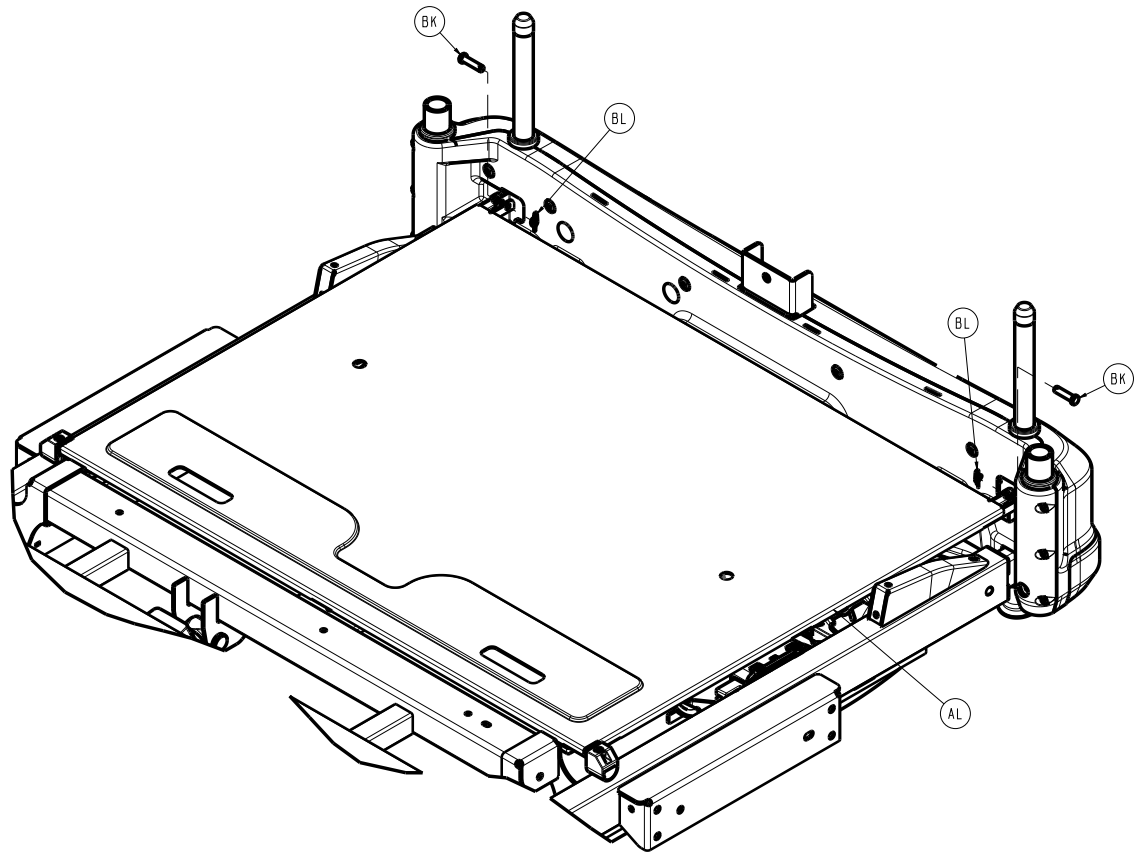
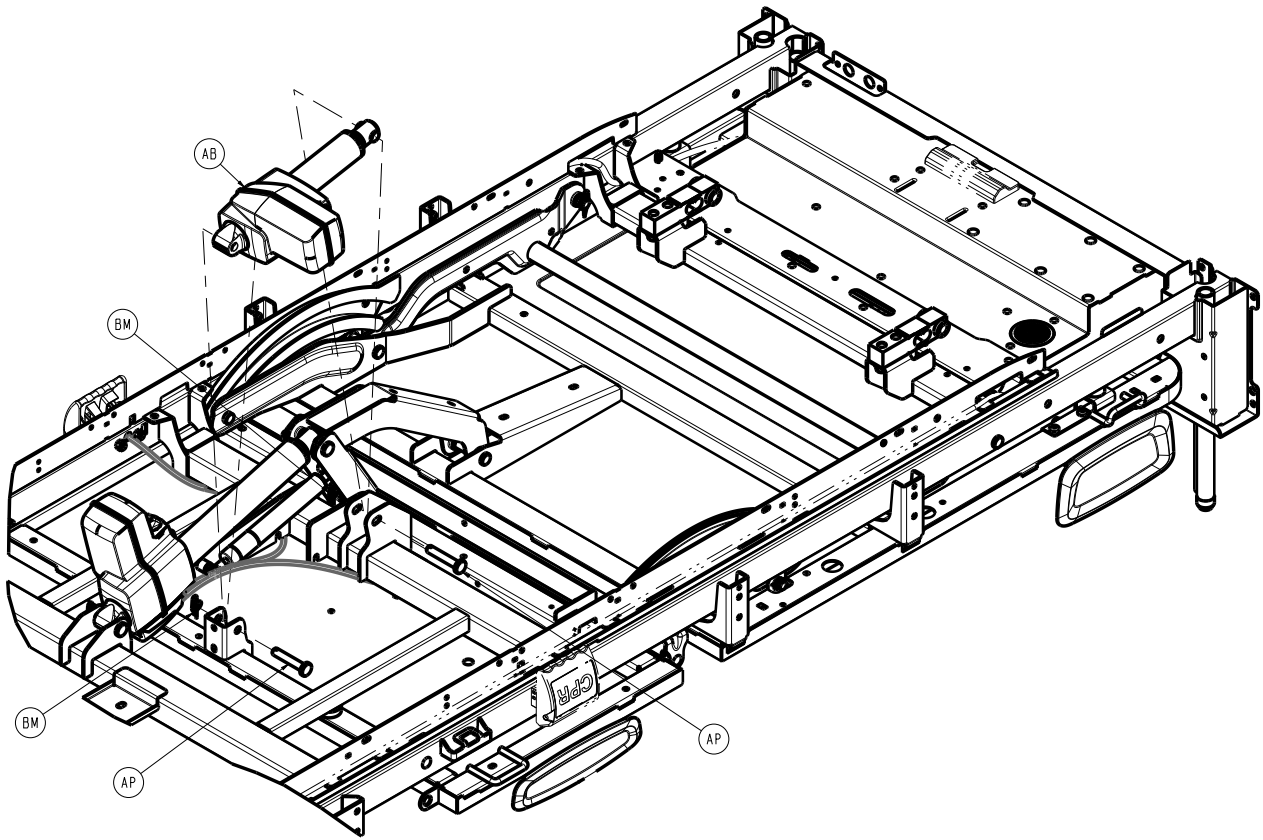


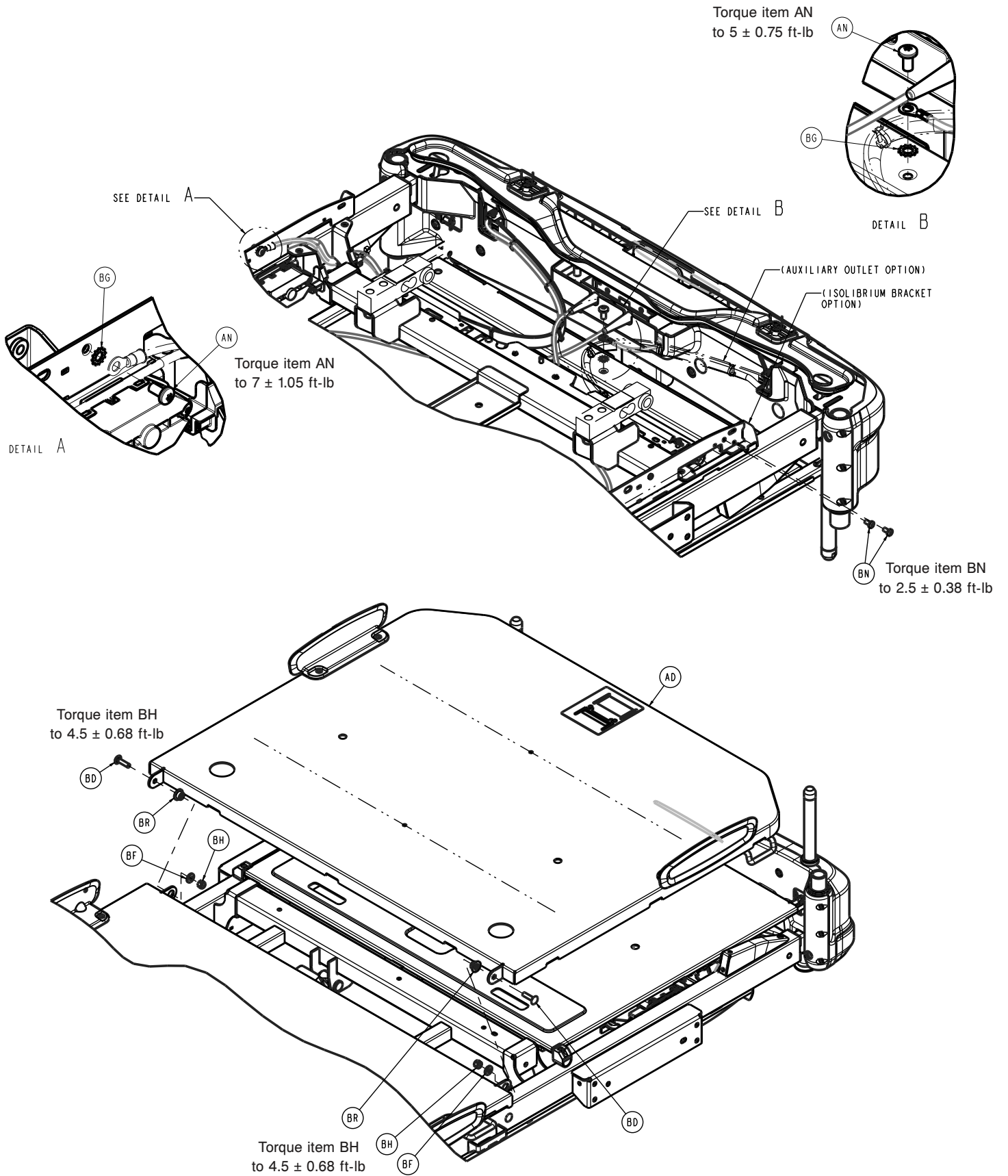




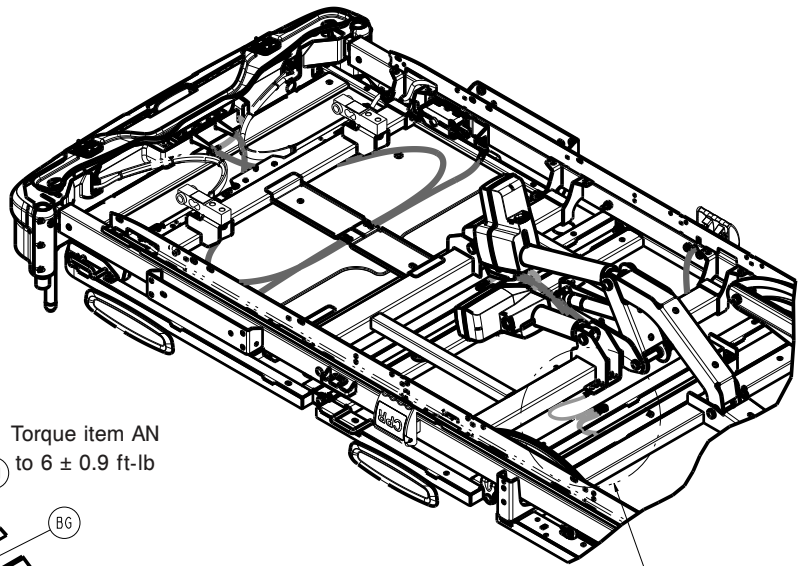
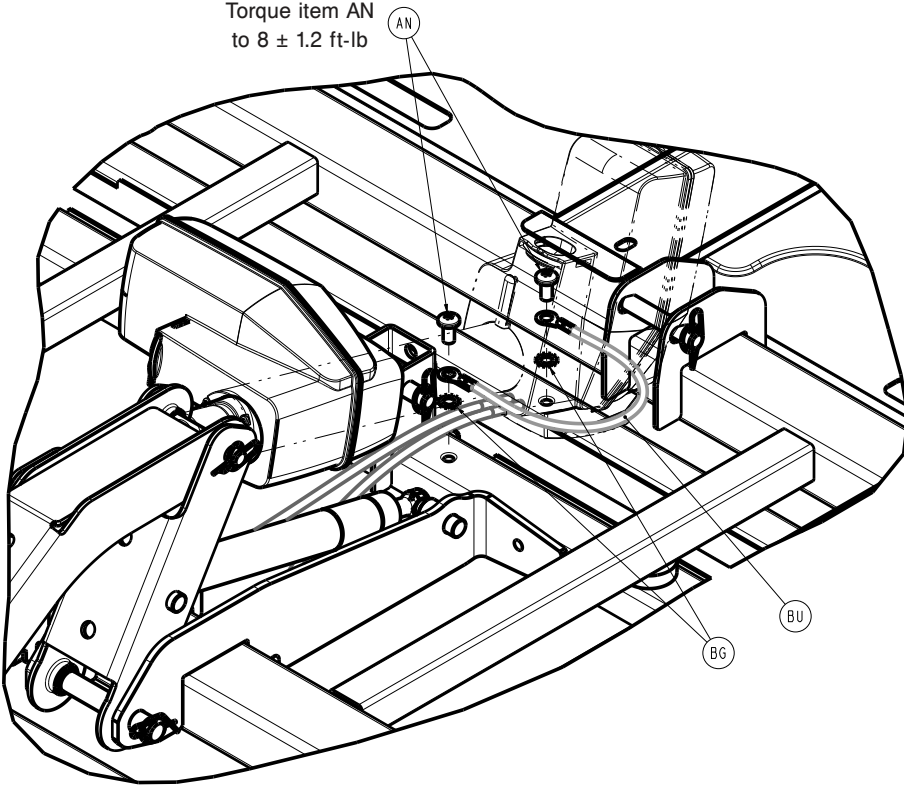






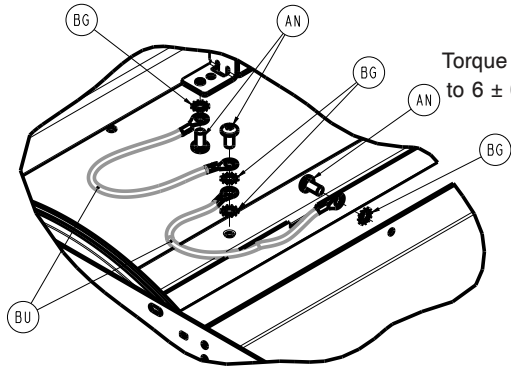


Torque item AN
to 8 ± 1.2 ft-lb



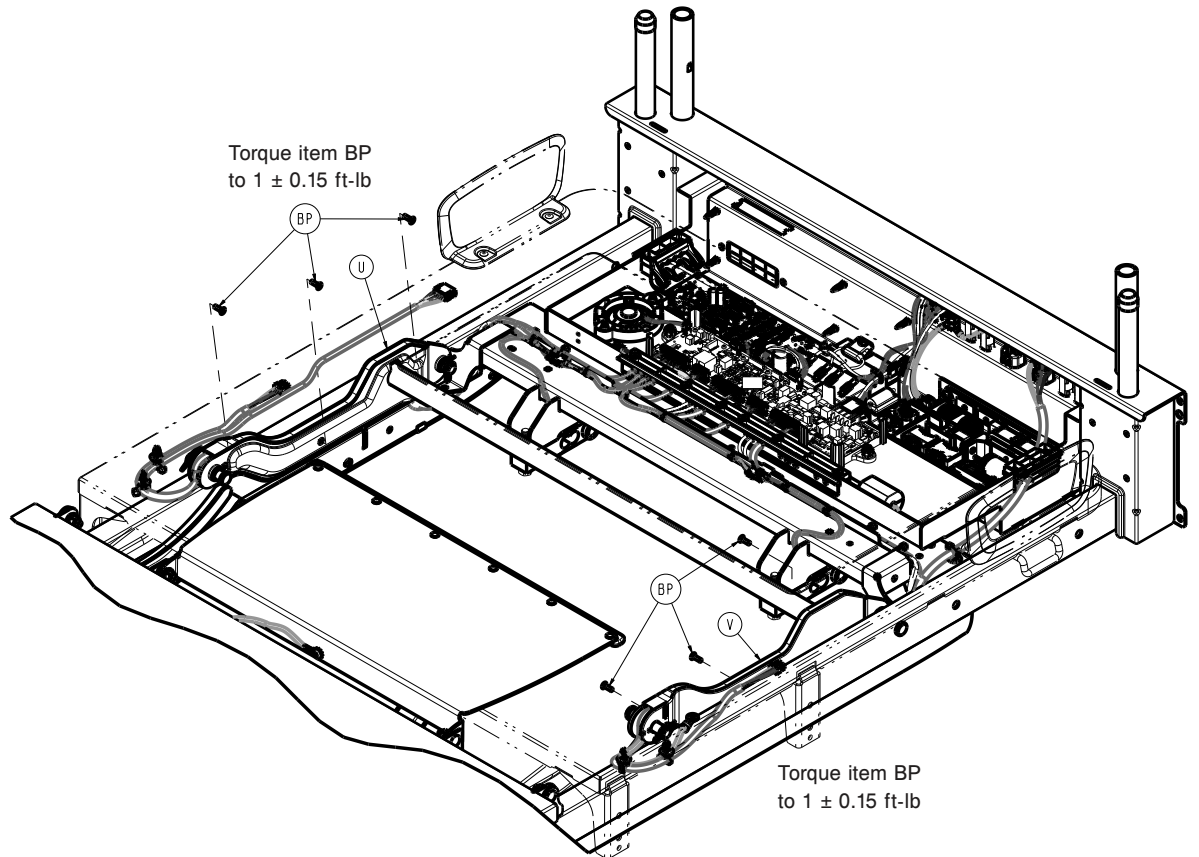
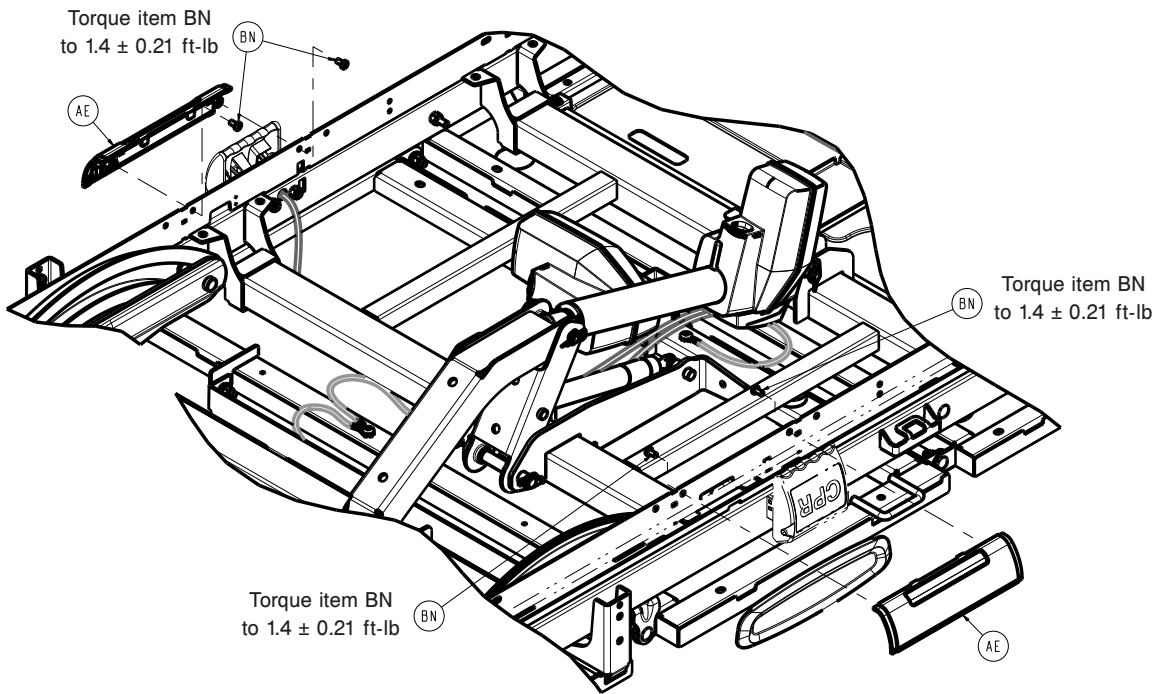
Torque item AN
to 8 ± 1.2 ft-lb

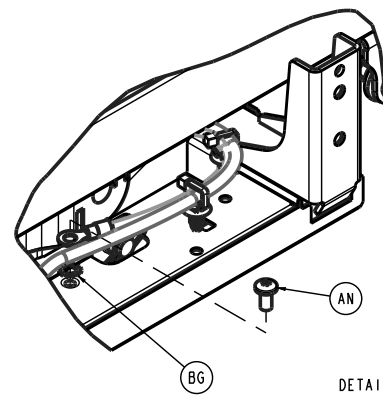
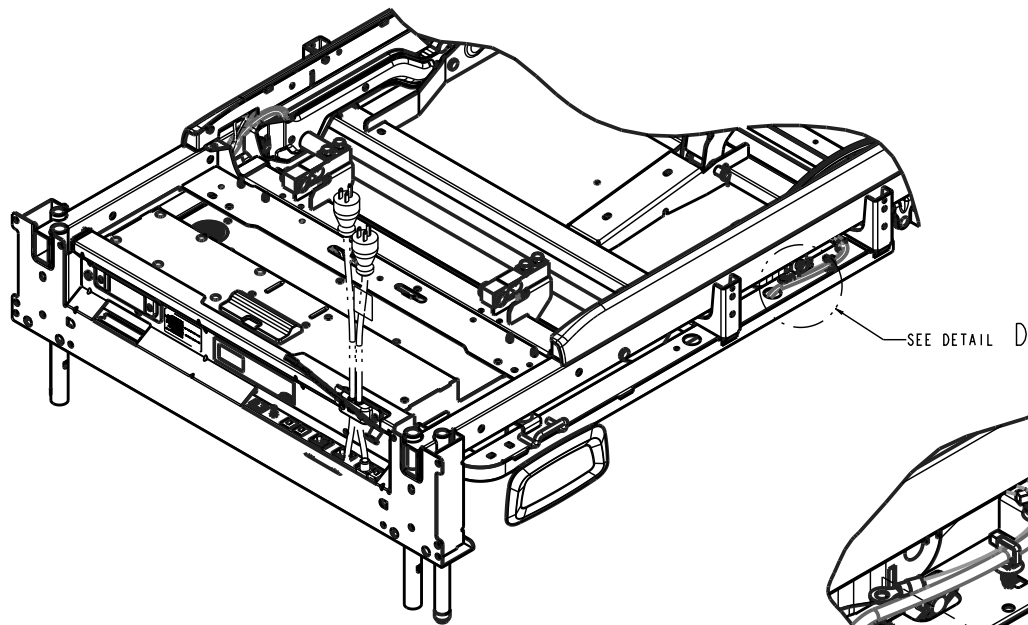
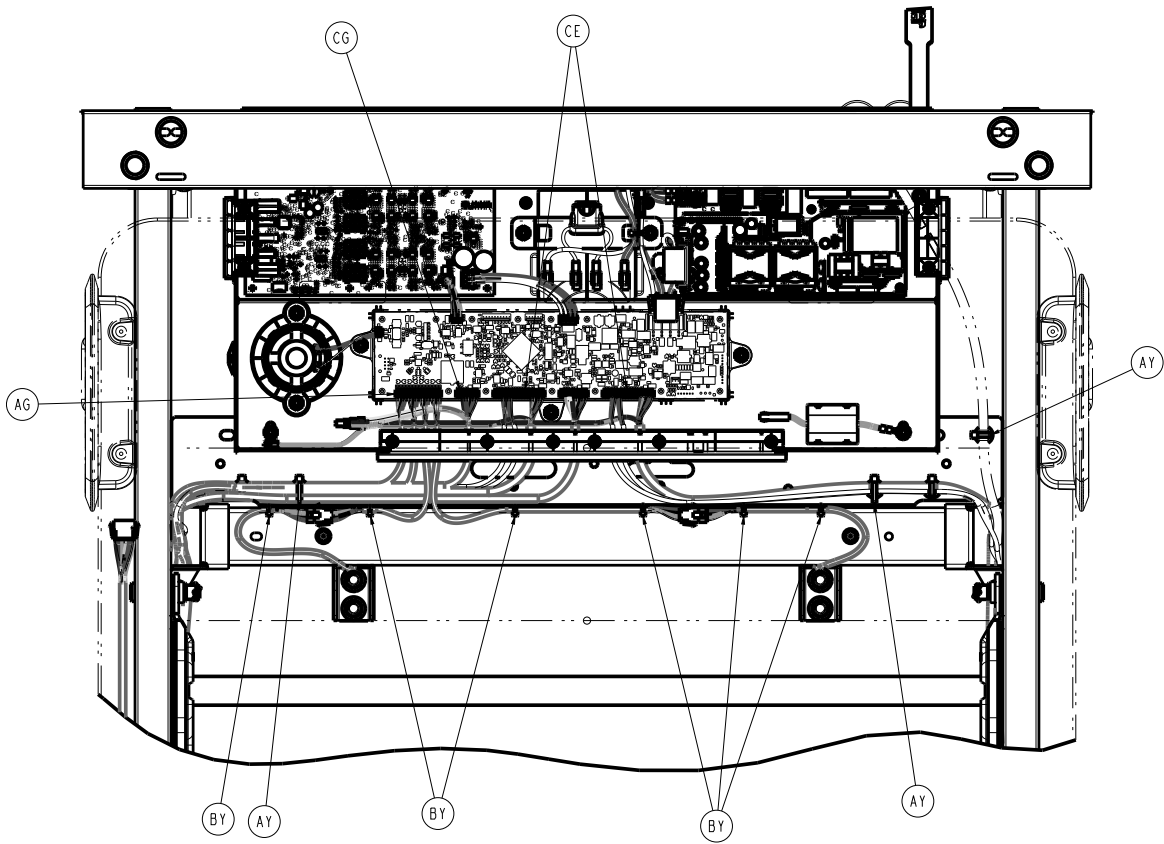
Torque item AN
to 6 ± 0.9 ft-lb



SEE DETAIL C

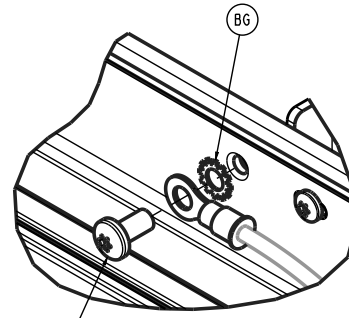
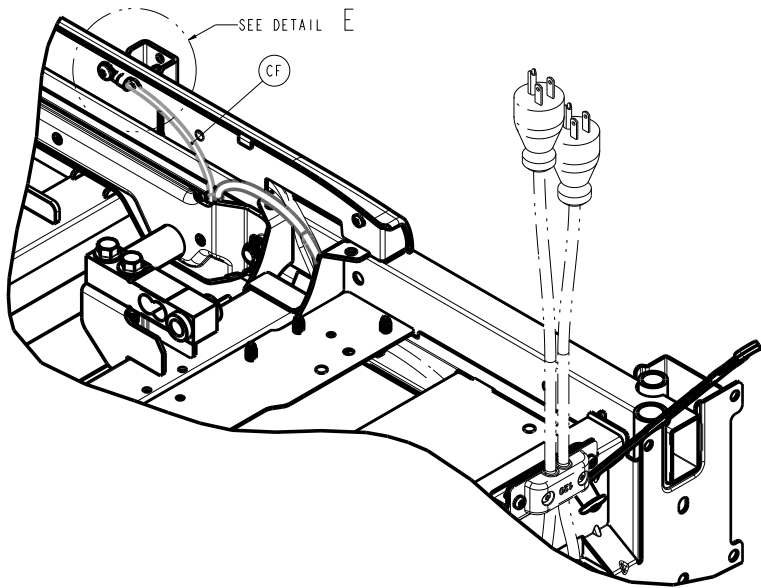
DETAIL C





Torque item AN to 5 ± 0.75 ft-lb

DETAIL D



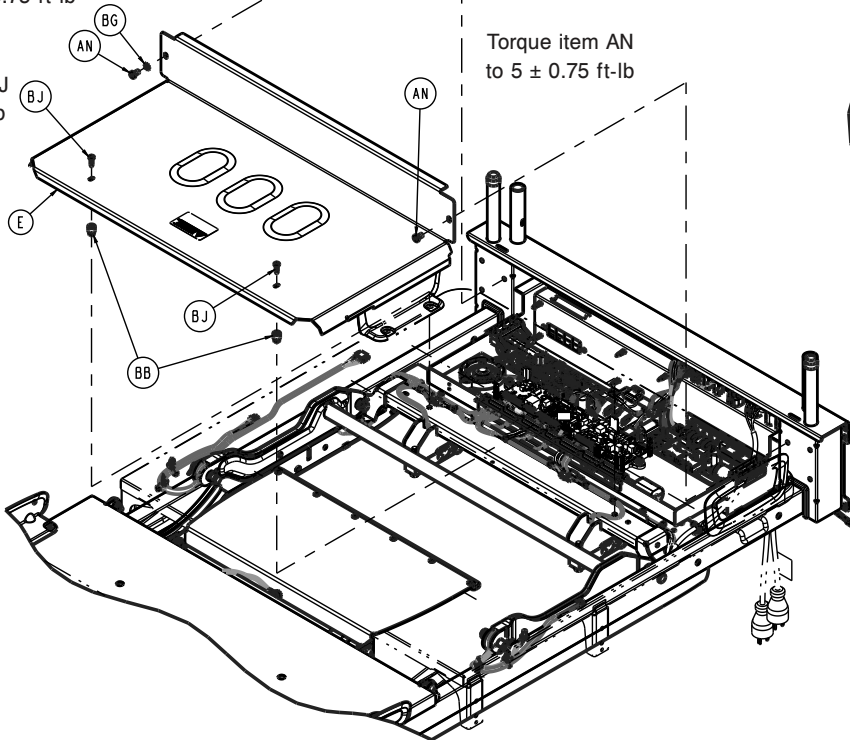
DETAIL E

Torque item AN
to 7 ± 1.05 ft-lb

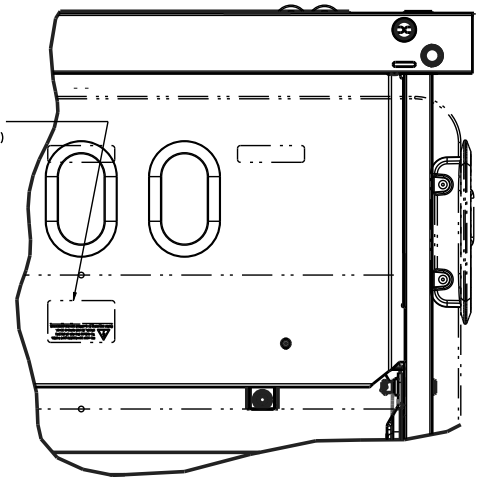
Torque item AN
to 5 ± 0.75 ft-lb

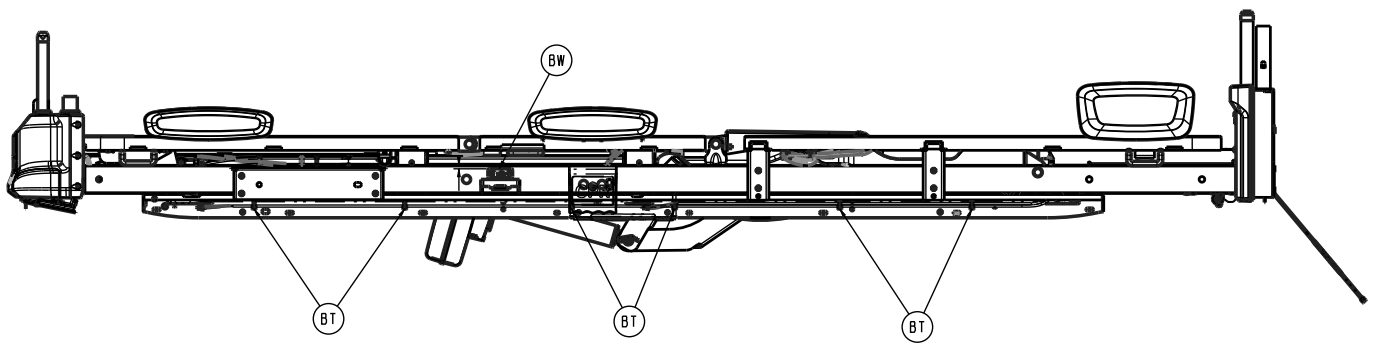
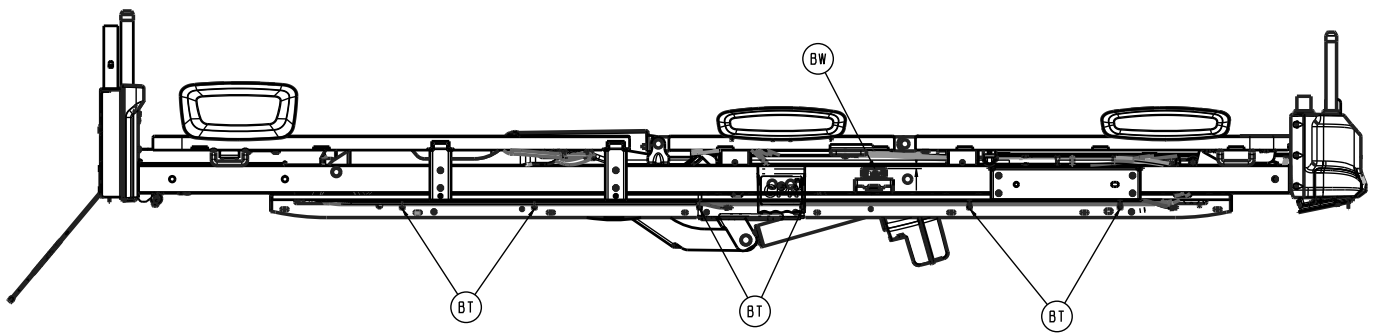
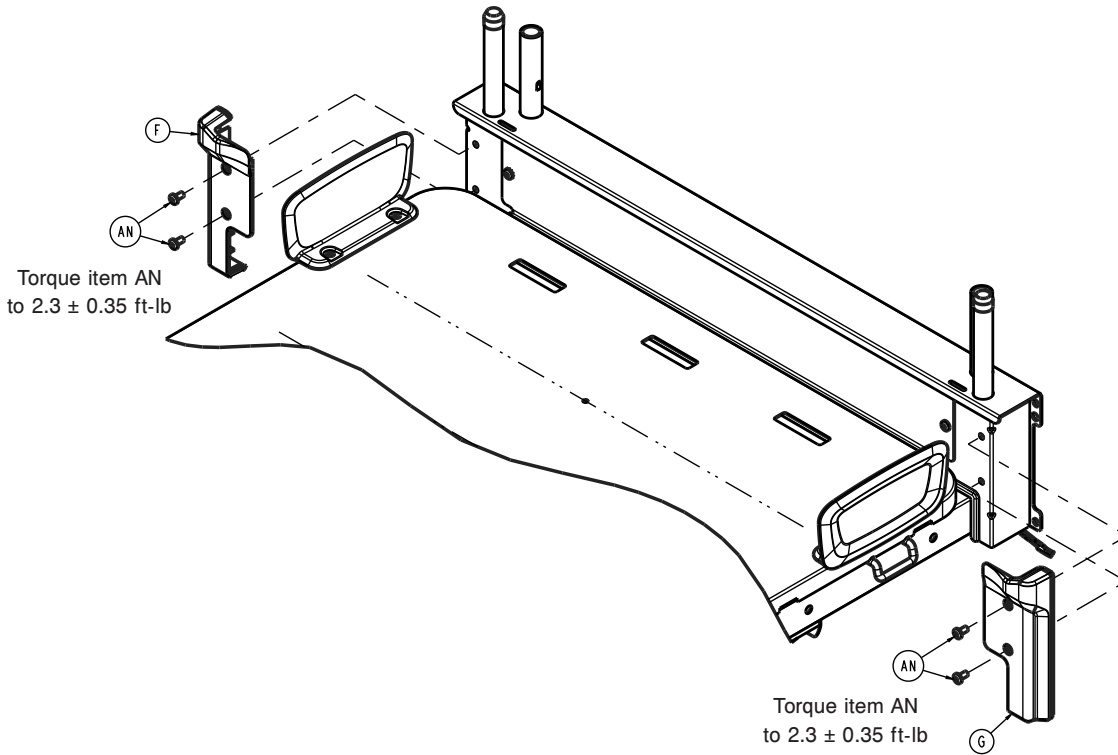
Torque item BJ
to 2 ± 0.3 ft-lb

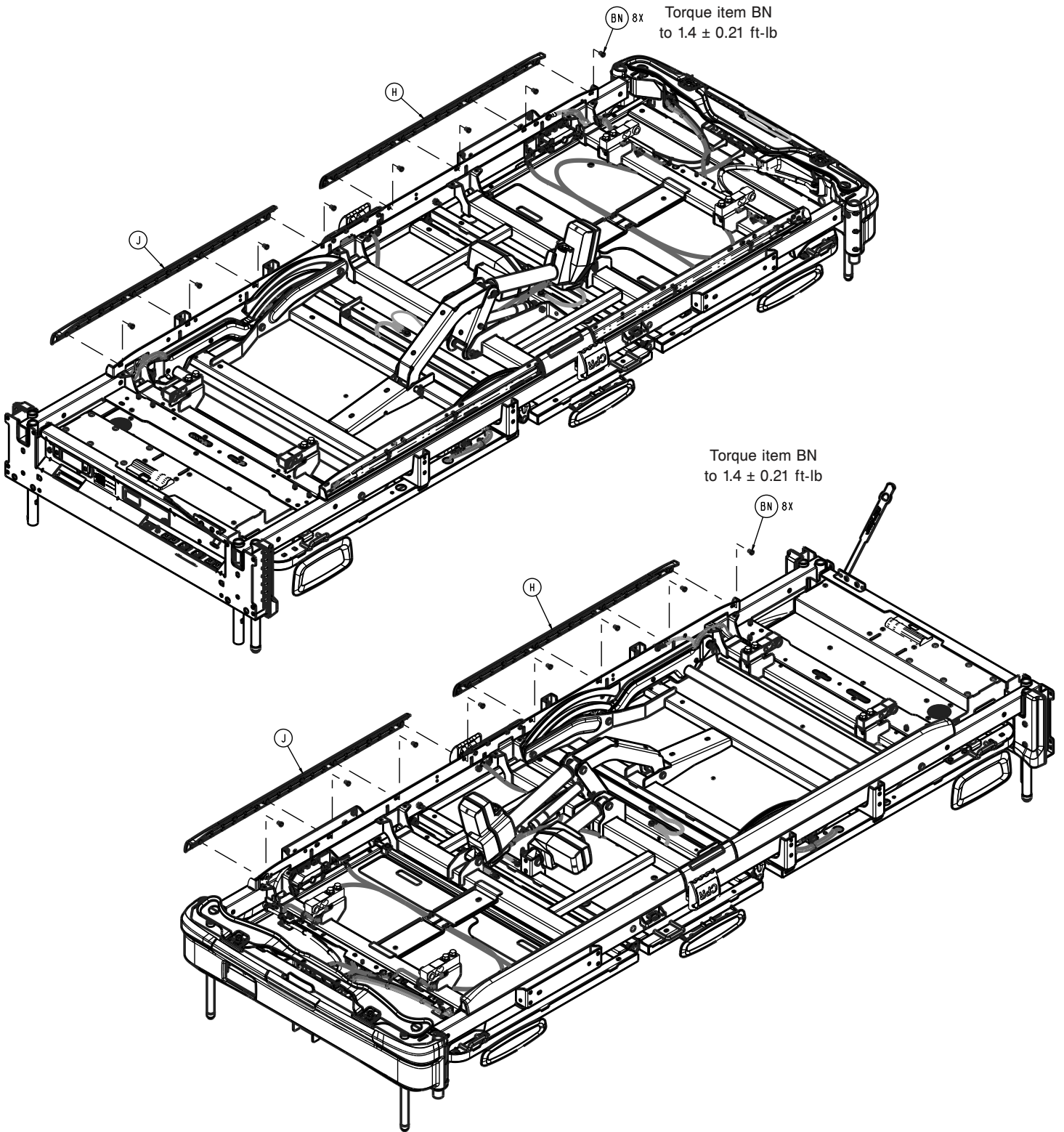
Torque item AN
to 5 ± 0.75 ft-lb

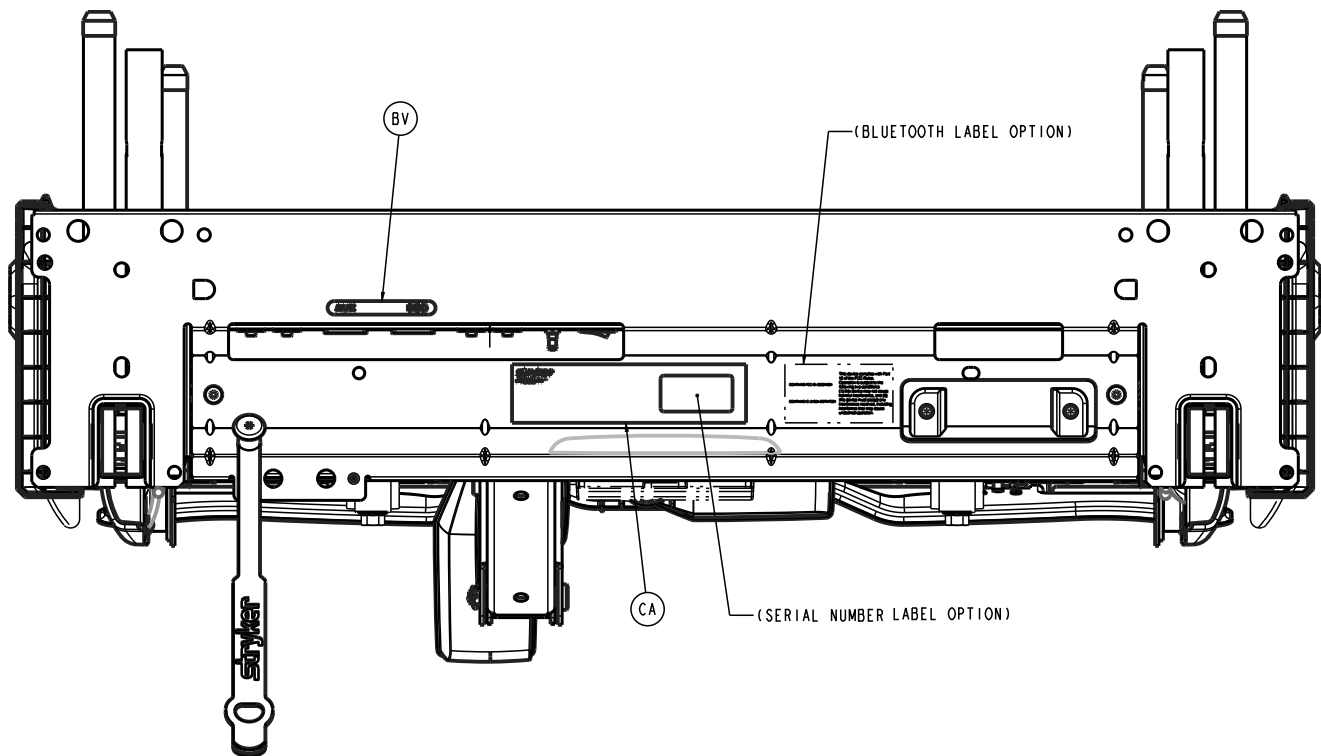


(ELECTRICAL SHOCK
LABEL OPTION)







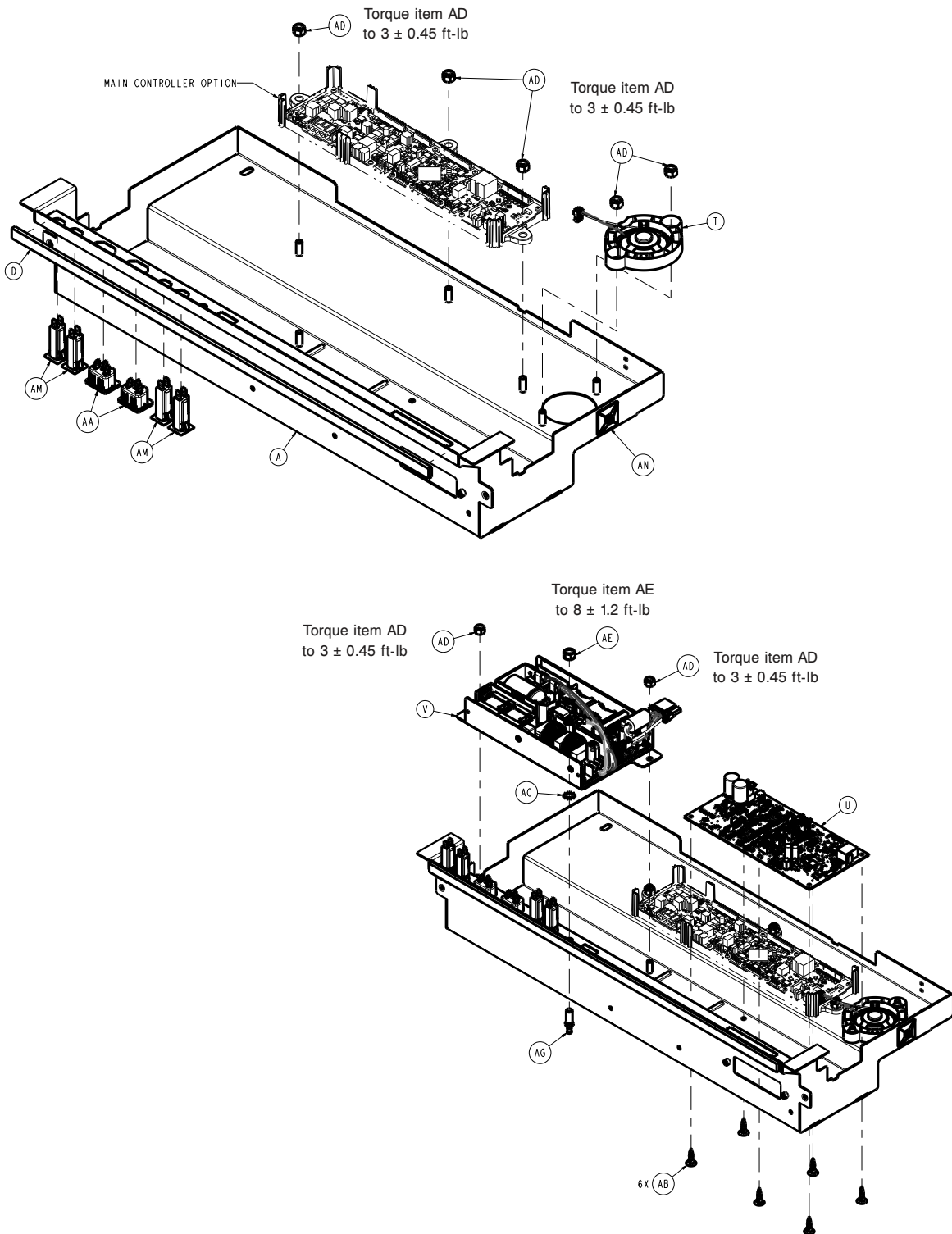


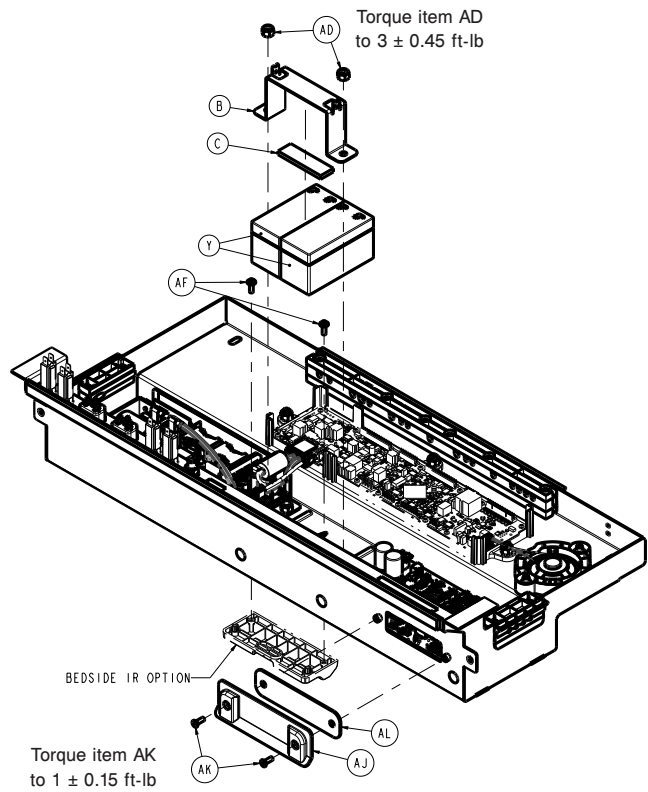
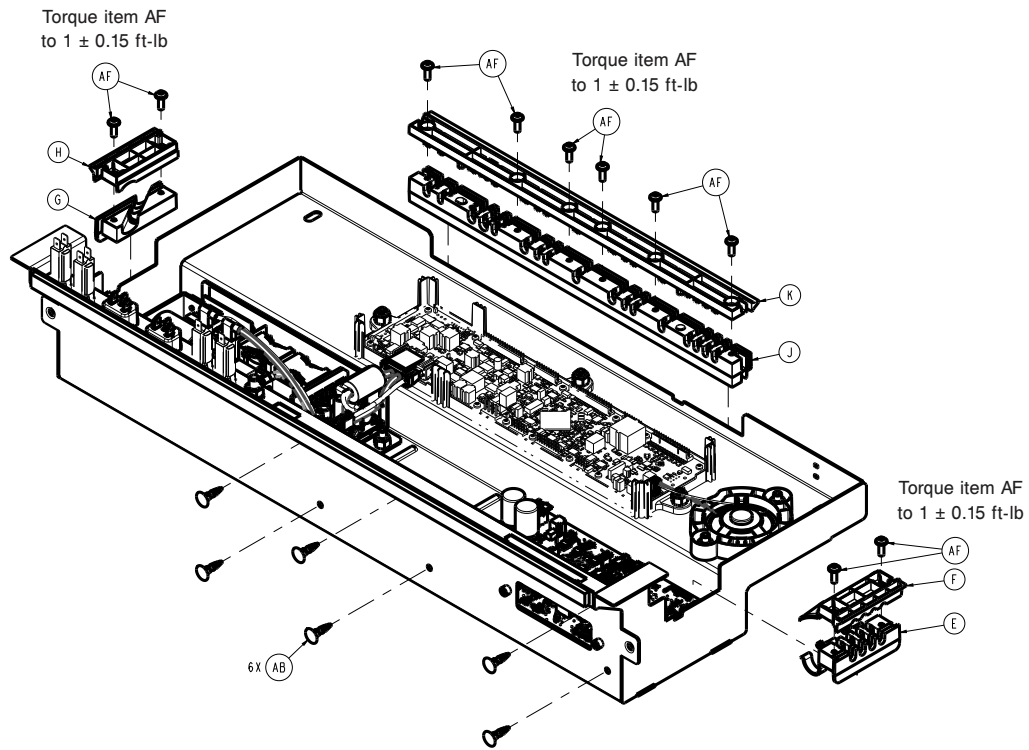
| Item | Number | Name | Quantity |
|------|--------------|---|----------|
| A | 300900100007 | Litter headboard post cap | 2 |
| B | 300900100009 | Litter cable retainer | 2 |
| C | 300900100050 | <i>Litter common components electronics box assembly (page 125)</i> | 1 |
| D | 300900100100 | Litter frame weldment | 1 |
| E | 300900100119 | Litter electronics box cover | 1 |
| F | 300900100166 | Litter headend rear cover, right | 1 |
| G | 300900100167 | Litter headend rear cover, left | 1 |
| H | 300900100173 | Litter cable rail cover, foot end right/head 2 end left | 2 |
| J | 300900100183 | Litter cable rail cover, foot end left/head 2 end right | 2 |
| K | 300900100331 | Litter CPR release cable, right | 1 |
| L | 300900100332 | Litter CPR release cable, left | 1 |
| M | 300900100868 | Cable assembly | 1 |
| N | 300900120006 | Fowler dampener | 1 |
| P | 300900120015 | Fowler tension link assembly | 1 |
| R | 300900120030 | Fowler compression link assembly | 1 |
| T | 300900120040 | Fowler actuator | 1 |
| U | 300900120055 | Fowler timing link cover, right assembly | 1 |
| V | 300900120065 | Fowler timing link cover, left assembly | 1 |
| W | 300900120075 | <i>Fowler timing link assembly (page 137)</i> | 1 |
| Y | 300900120150 | <i>Fowler assembly - 300900120150 (page 135)</i> | 1 |
| AA | 300900130150 | Seat assembly | 1 |
| AB | 300900140040 | Gatch actuator | 1 |
| AC | 300900140150 | <i>Gatch assembly - 300900140150 (page 138)</i> | 1 |

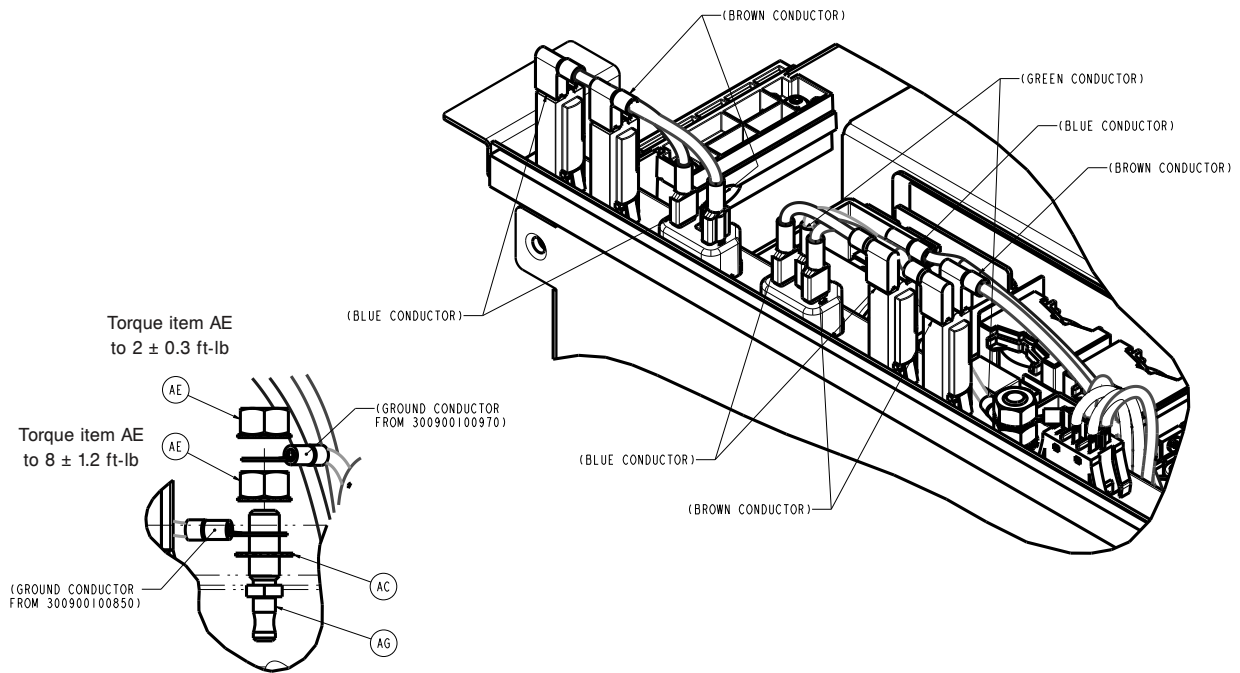
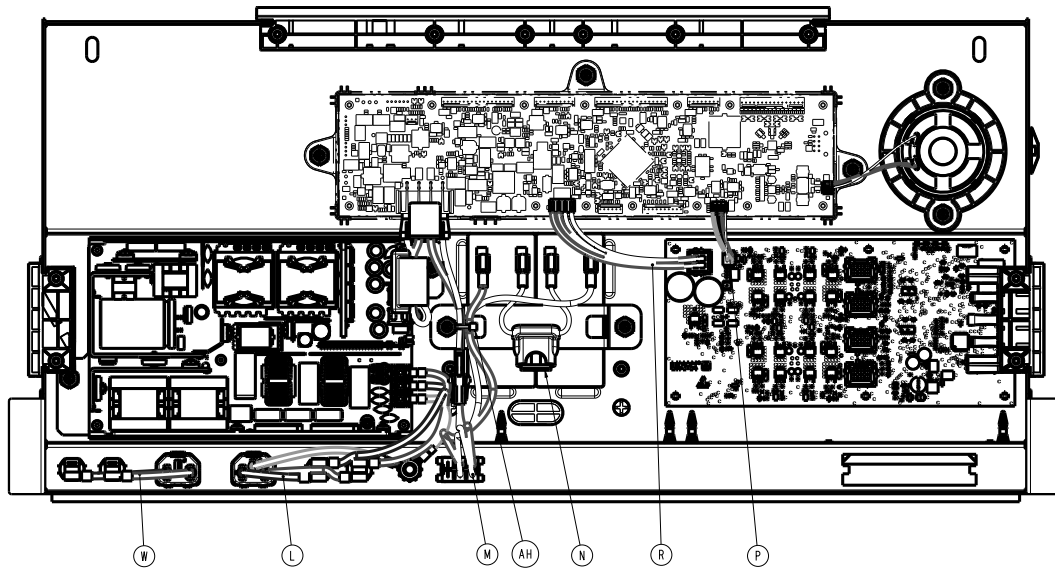
| Item | Number | Name | Quantity |
|------|--------------|--|----------|
| AD | 300900150150 | Foot assembly - 300900150150 (page 139) | 1 |
| AE | 300900360020 | Nightlight assembly | 1 |
| AF | 300900370057 | Loadcell | 2 |
| AG | 300900370862 | Cable assembly | 1 |
| AH | 300900670000 | Bed extender assembly (page 141) | 1 |
| AJ | 300900670007 | Bed extender cable guide | 1 |
| AK | 300900670050 | Bed extender latch assembly | 2 |
| AL | 300900670150 | Bed extender foot extension assembly | 1 |
| AM | 700000335994 | Clevis pin | 2 |
| AN | 700000336076 | Pan head thread rolling screw | 15 |
| AP | 700000341264 | Clevis pin | 3 |
| AR | 700000341265 | Clevis pin | 1 |
| AT | 700000661688 | Clevis pin | 2 |
| AU | 700000717744 | Nylock flange hex nut | 8 |
| AV | 700000720893 | Clevis pin | 4 |
| AW | 700000775295 | Pan head thread rolling screw | 2 |
| AY | 700000816940 | Tree mount | 8 |
| BA | 700000820540 | Dome head blind rivet | 1 |
| BB | 700000875053 | Round head nylon grommet nut | 2 |
| BC | 700000664825 | Pan head machine screw | 6 |
| BD | 0005-019-000 | Round head square neck bolt | 6 |
| BE | 0005-024-000 | Round head square neck bolt | 6 |
| BF | 0011-077-000 | Plain washer | 6 |
| BG | 0013-010-000 | External tooth lock washer | 11 |
| BH | 0016-028-000 | Nylock hex nut | 14 |
| BJ | 0023-311-000 | Pan head tap screw | 2 |
| BK | 0026-340-000 | Clevis pin | 4 |
| BL | 0027-020-000 | Rue ring cotter | 6 |
| BM | 0027-034-000 | Rue ring cotter | 10 |
| BN | 0050-084-000 | Pan head machine screw | 20 |
| BP | 0785-045-704 | Flange head thread forming screw | 6 |
| BR | 3000-300-099 | Fowler modified bushing | 6 |
| BT | 3000-300-113 | Cable tie | 20 |
| BU | 3002-300-870 | Litter ground jumper | 3 |
| BV | 300900160007 | Label, IEC identification | 1 |
| BW | 300900160008 | Label, Foley bag hook | 2 |
| BY | 3000-300-114 | Cable tie | 6 |
| CA | 300900160011 | Label, specification | 1 |
| CB | 30090010008 | Power cord litter post | 1 |
| CC | 300900160171 | Cord/hose management strap | 1 |
| CD | 5900340073 | Torx screw | 2 |
| CE | 300901100811 | PCBA to siderails cable assembly | 2 |
| CF | 300900100867 | Ground strap cable assembly | 1 |
| CG | 300900470867 | PCBA to pendant connector cable assembly | 1 |

Litter common components electronics box assembly

300900100050 Rev AB (Reference only)





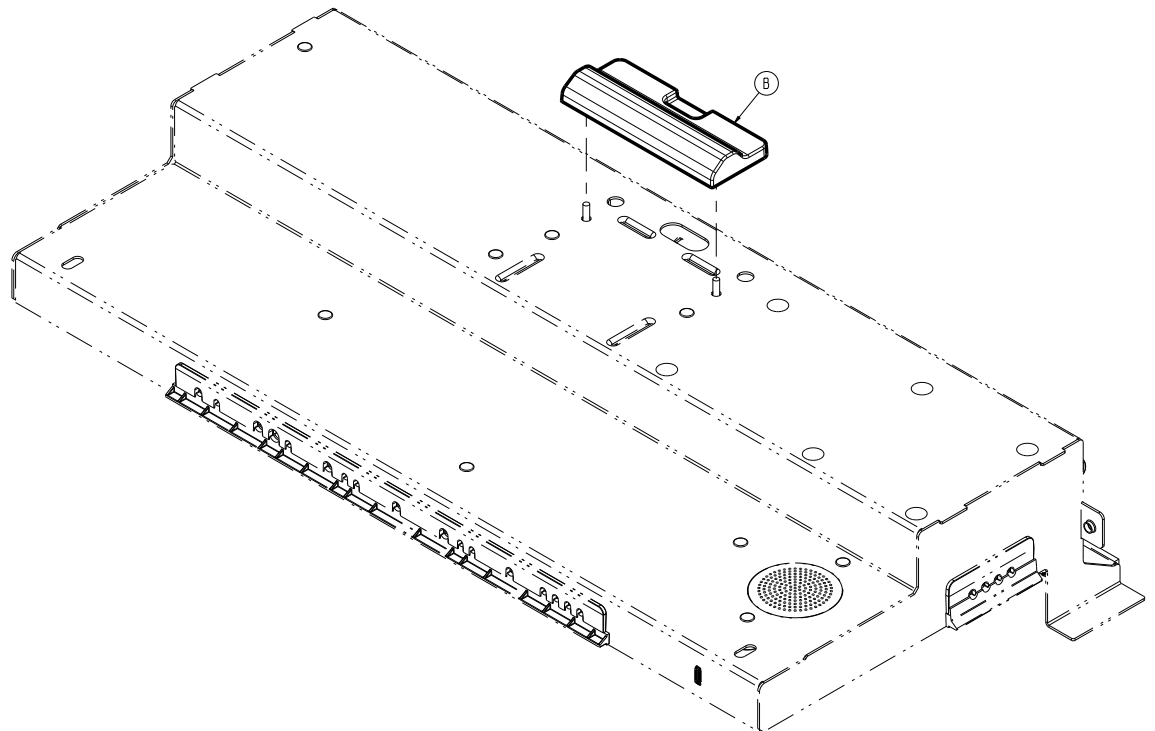
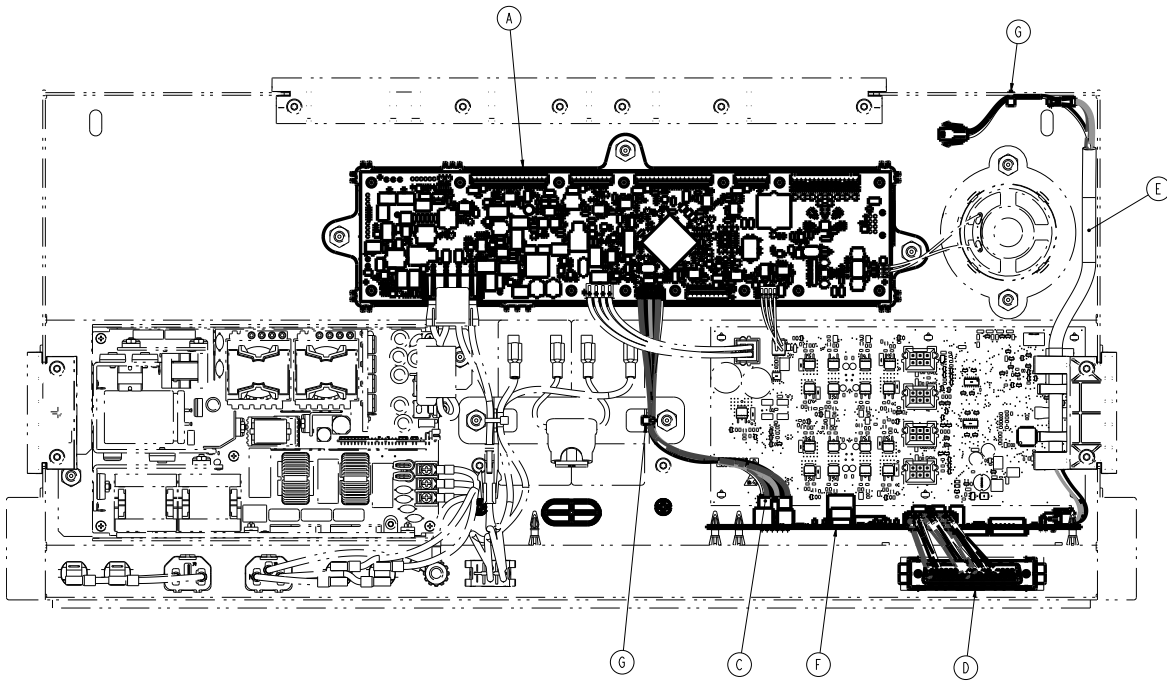


| Item | Number | Name | Quantity |
|------|--------------|---------------------------------|----------|
| A | 300900100110 | Litter electronics box weldment | 1 |
| B | 300900100114 | Battery strap | 1 |
| C | 300900100116 | Battery strap foam | 1 |
| D | 300900100117 | Foam gasket | 1 |
| E | 300900100132 | Actuator cable bottom grommet | 1 |
| F | 300900100133 | Actuator cable top grommet | 1 |
| G | 300900100136 | Auxiliary cable bottom grommet | 1 |
| H | 300900100137 | Auxiliary cable top grommet | 1 |
| J | 300900100138 | Cable bottom grommet | 1 |
| K | 300900100139 | Cable top grommet | 1 |
| L | 300900100850 | Cable assembly | 1 |

| Item | Number | Name | Quantity |
|------|--------------|-----------------------------------|----------|
| M | 300900100851 | Battery switch | 1 |
| N | 300900100852 | Battery fuse | 1 |
| P | 300900100863 | Cable assembly | 1 |
| R | 300900100864 | Cable assembly | 1 |
| T | 300900100870 | Cable assembly | 1 |
| U | 300900100950 | Motion controller board | 1 |
| V | 300900100970 | Power supply assembly | 1 |
| W | 300900400850 | Cable assembly | 1 |
| Y | 700000341245 | Rechargeable battery, 12V | 2 |
| AA | 700000393685 | IEC appliance inlet | 2 |
| AB | 700000480101 | Reverse locking support | 12 |
| AC | 0013-038-000 | External tooth lock washer | 1 |
| AD | 0016-028-000 | Nylock hex nut | 9 |
| AE | 0016-033-000 | Hex kep nut | 2 |
| AF | 0023-348-000 | Round washer head tap screw | 12 |
| AG | 2011-001-215 | Grounding lug | 1 |
| AH | 3000-300-114 | Cable tie | 1 |
| AJ | 300900100131 | Dip switch cover | 1 |
| AK | 0001-022-000 | Flat socket countersunk cap screw | 2 |
| AL | 300900100134 | Dip switch cover gasket | 1 |
| AM | 0059-400-000 | Circuit breaker, 8 amp | 4 |
| AN | 700001133165 | Adhesive cable tie mount | 1 |

Litter basic electronics box assembly

300900100400 Rev AB (Reference only)

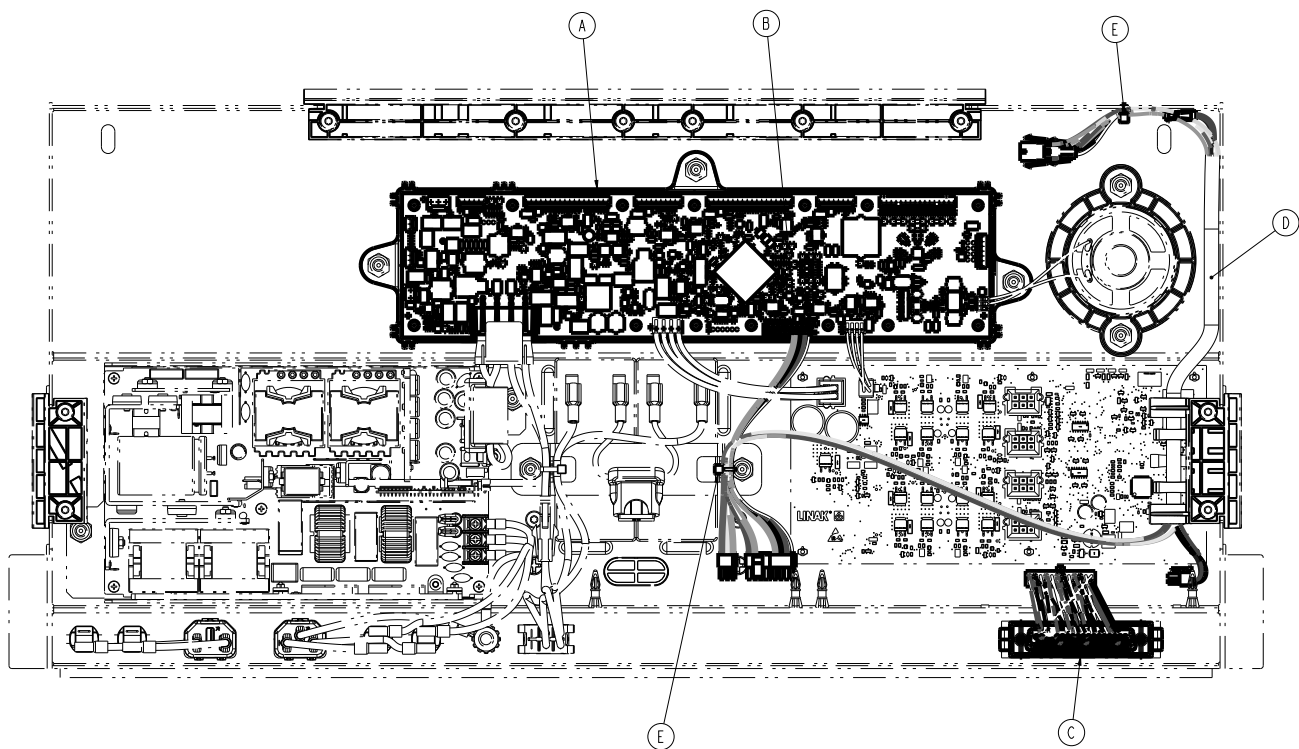


| Item | Number | Name | Quantity |
|------|--------------|--------------------------------------|----------|
| A | 300900100120 | Main controller basic board assembly | 1 |
| B | 300900100141 | Bedside IR module plug | 1 |
| C | 300900380800 | Cable assembly | 1 |
| D | 300900380801 | Cable assembly | 1 |

| Item | Number | Name | Quantity |
|-------------|---------------|------------------------------------|-----------------|
| E | 300900380820 | Cable assembly | 1 |
| F | 300900380900 | Bedside room interface basic board | 1 |
| G | 3000-300-114 | Cable tie | 2 |

Litter advanced common components electronics box assembly

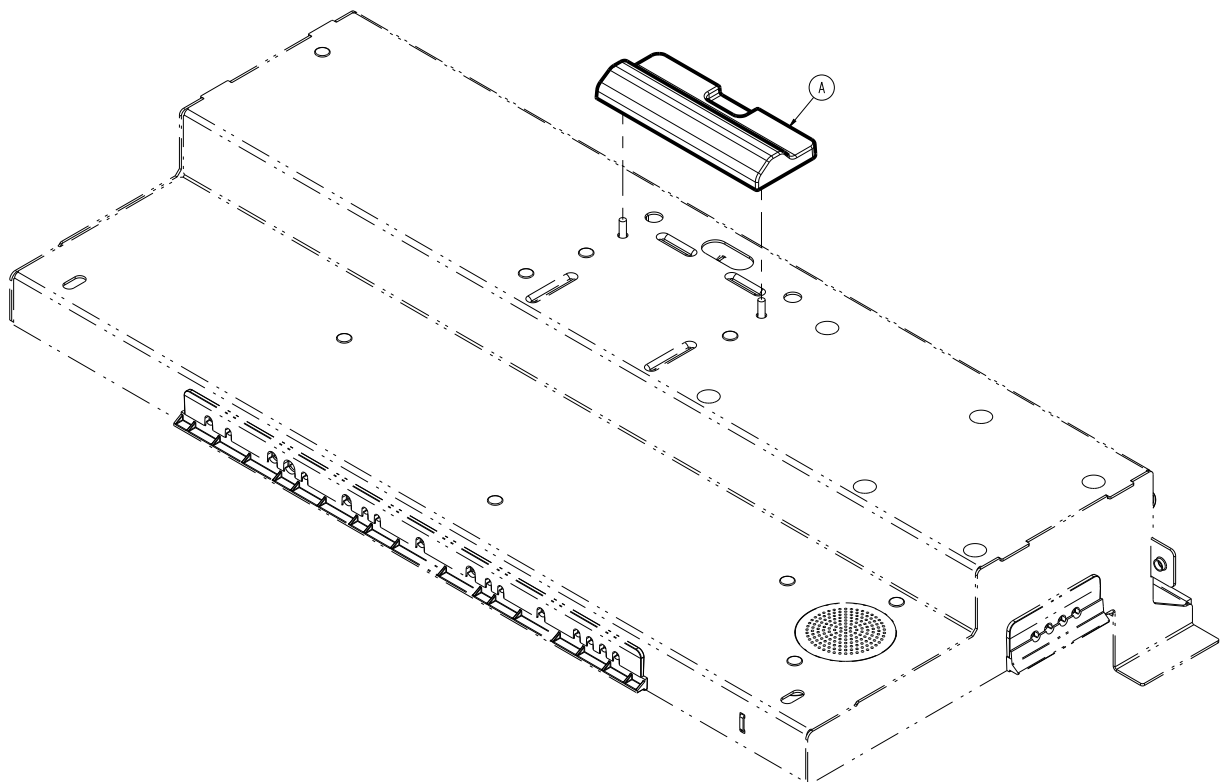
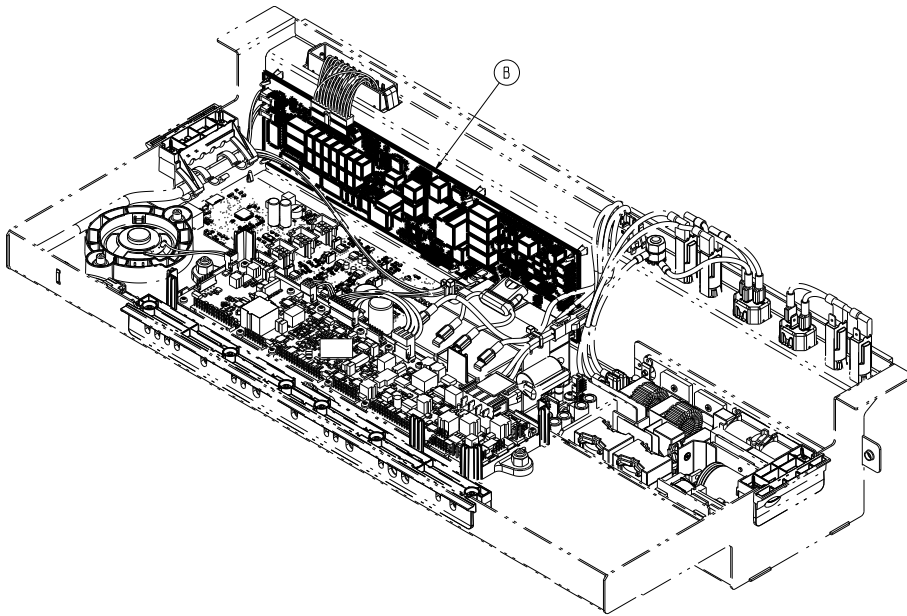
300900100350 Rev AB (Reference only)



| Item | Number | Name | Quantity |
|------|--------------|---|----------|
| A | 300900100130 | Main controller advanced board assembly | 1 |
| B | 300900380810 | Cable assembly | 1 |
| C | 300900380811 | Cable assembly | 1 |
| D | 300900380825 | Cable assembly | 1 |
| E | 3000-300-114 | Cable tie | 2 |

Litter advanced wired electronics box assembly

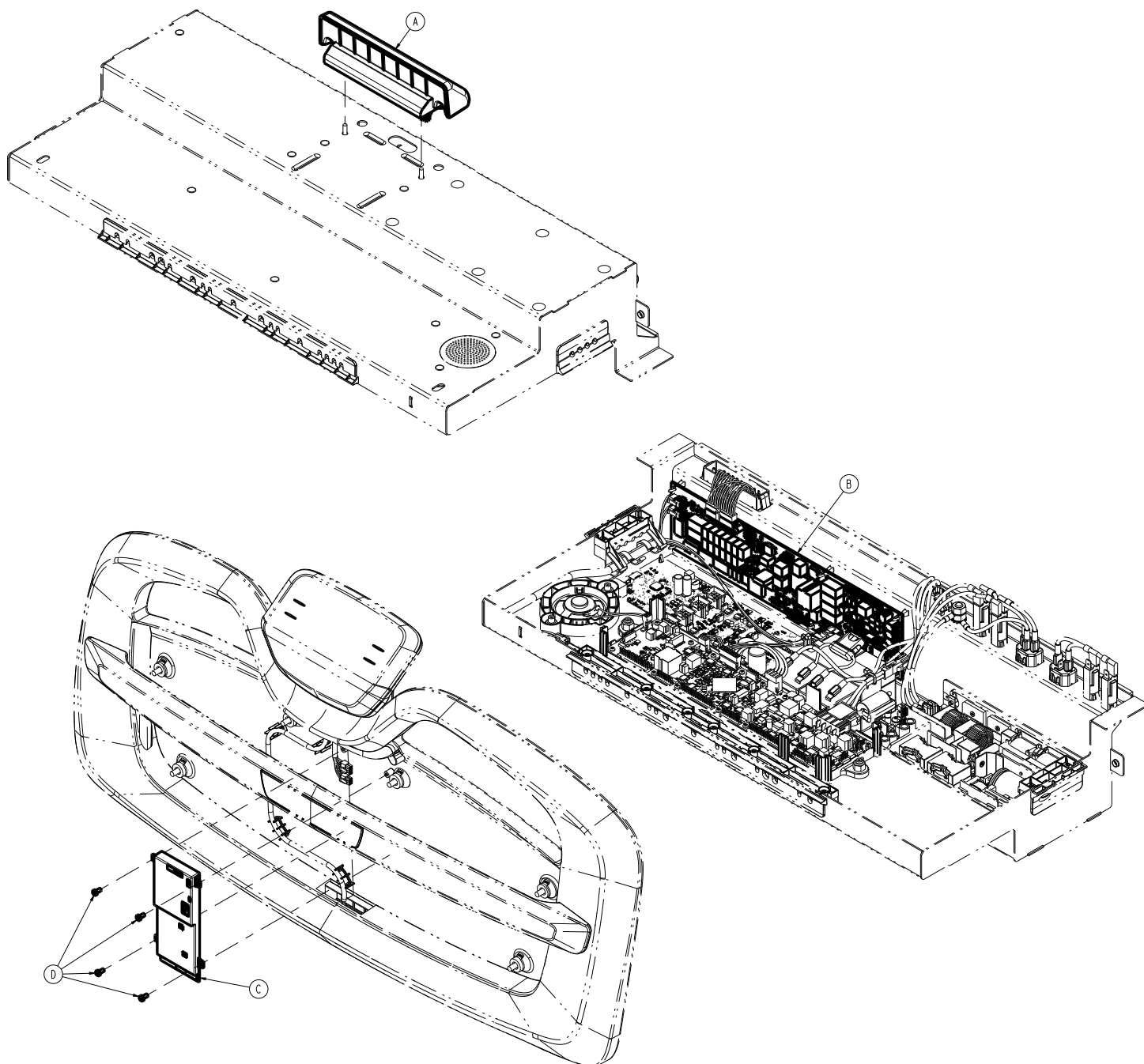
300900100450 Rev AB (Reference only)



| Item | Number | Name | Quantity |
|------|--------------|--|----------|
| A | 300900100141 | Bedside IR module plug | 1 |
| B | 300900380920 | Advanced wireless bedside room interface board | 1 |

Litter advanced wireless electronics box assembly

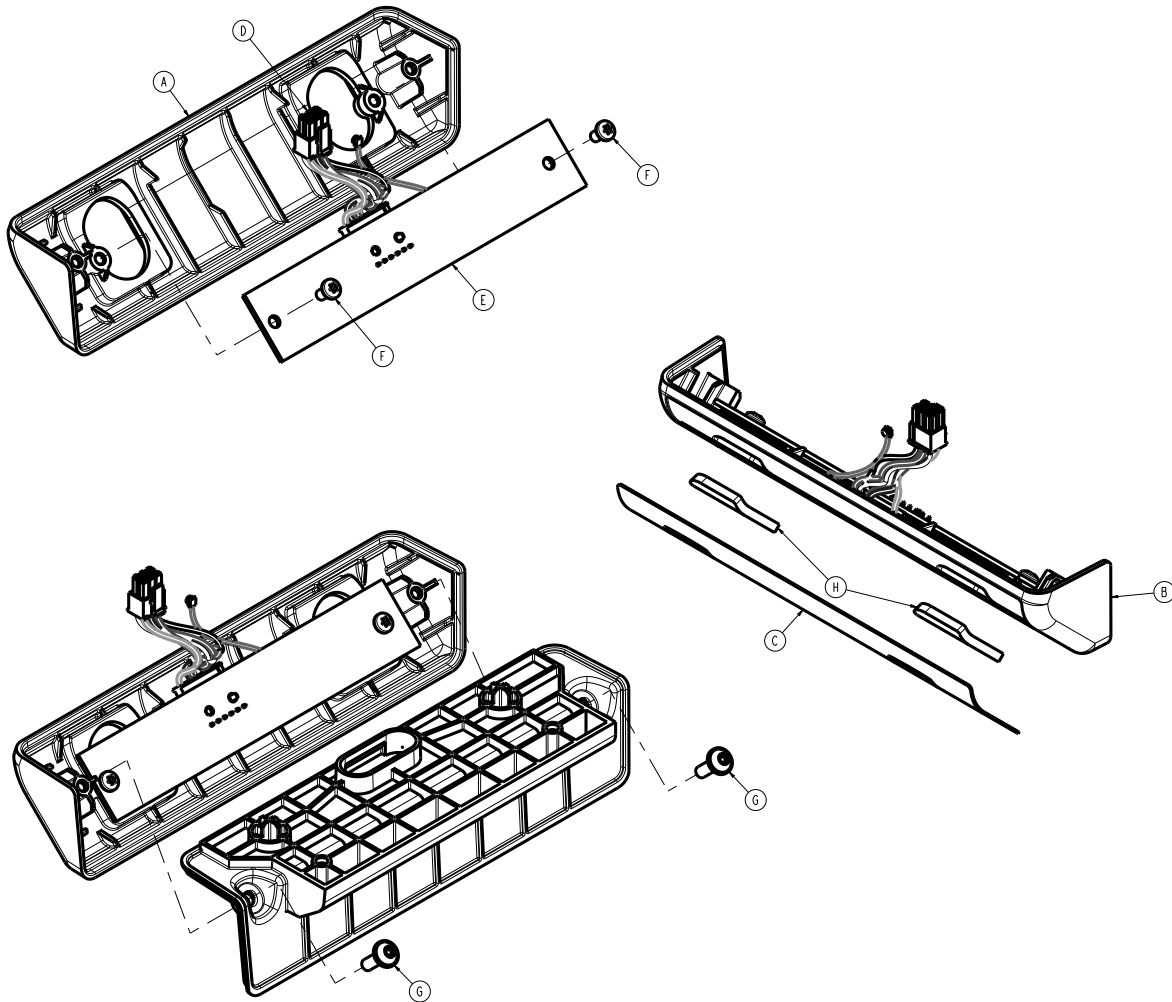
300900100500 Rev AC (Reference only)



| Item | Number | Name | Quantity |
|------|--------------|--|----------|
| A | 300900100150 | Bedside IR module assembly | 1 |
| B | 300900380920 | Advanced wireless bedside room interface board | 1 |
| C | 300900680910 | Gateway assembly | 1 |
| D | 700000687304 | Pan head thread forming screw | 4 |

Bedside IR module assembly

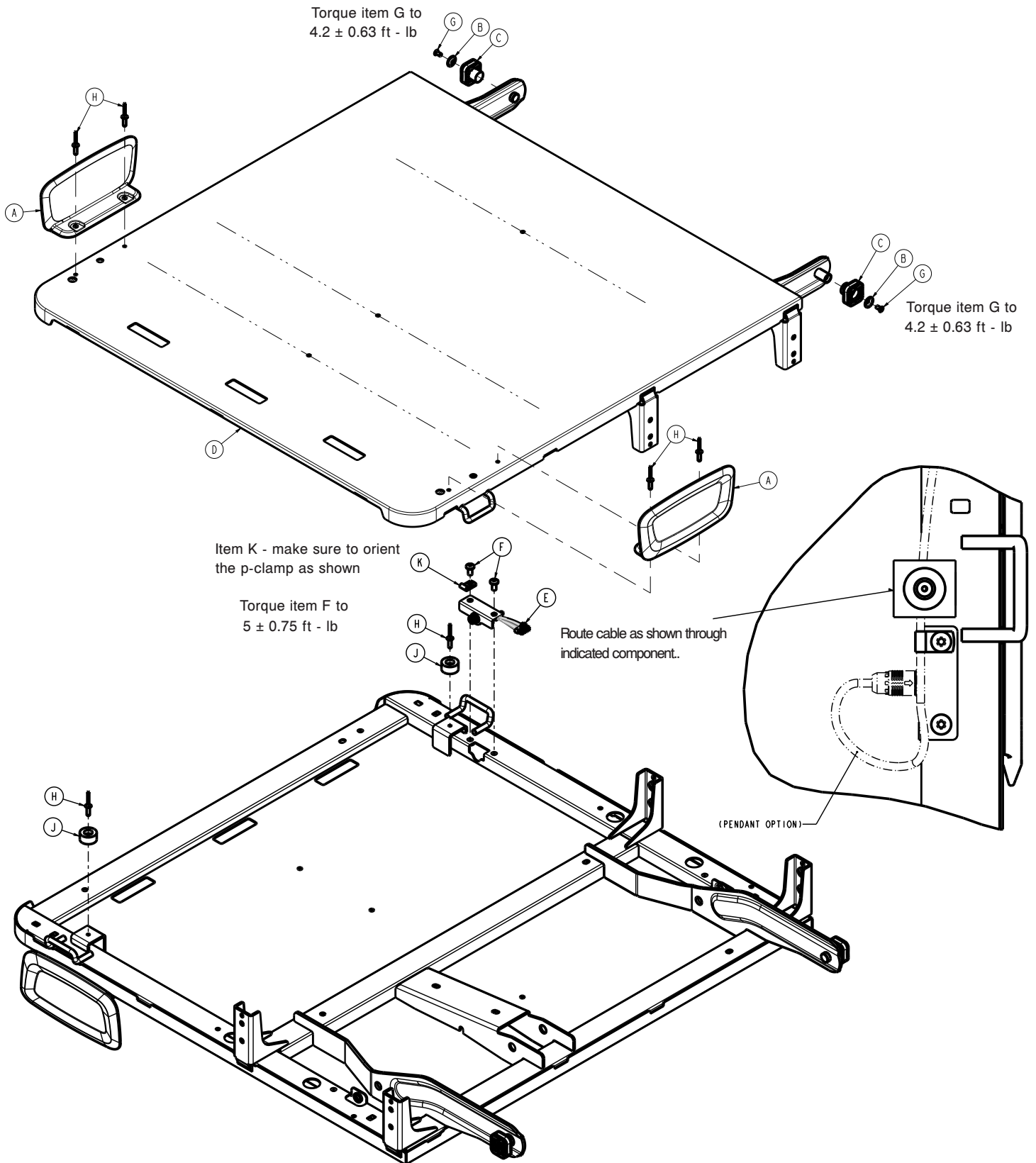
300900100150 Rev AC (Reference only)



| Item | Number | Name | Quantity |
|------|----------------|---------------------------------|----------|
| A | 300900100151 | Front cover | 1 |
| B | 300900100152 | Back cover | 1 |
| C | 300900380011 | Label, bedside IR module front | 1 |
| D | 300900380830 | Cable assembly | 1 |
| E | 300900380930 | Bedside infrared board | 1 |
| F | Reference only | Pan head thread forming screw | 2 |
| G | Reference only | Round washer head tapping screw | 2 |
| H | 5212-300-090 | IR lens | 2 |

Fowler assembly - 300900120150

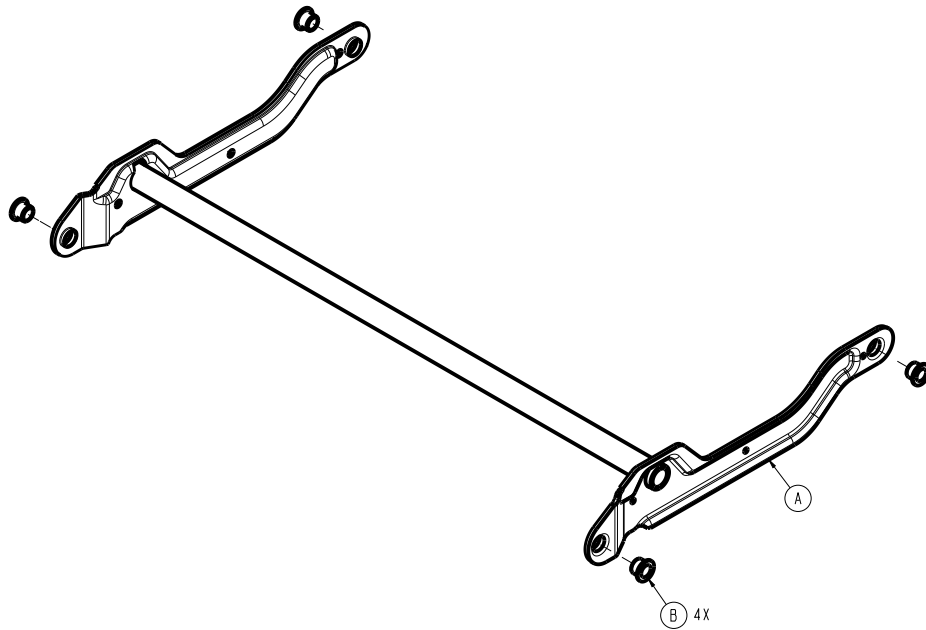
Rev AC (Reference only)



| Item | Number | Name | Quantity |
|-------------|---------------|----------------------------------|-----------------|
| A | 300900120009 | Fowler mattress retainer | 2 |
| B | 300900120012 | Fowler roller retention washer | 2 |
| C | 300900120013 | Fowler slider | 2 |
| D | 300900120100 | Fowler weldment | 1 |
| E | 300900470868 | Pendant connector cable assembly | 1 |
| F | 700000336076 | Pan head thread screw | 2 |
| G | 700000741229 | Flat cap head machine screw | 2 |
| H | 700000820540 | Dome head rivet | 6 |
| J | 0056-016-000 | Bumper | 2 |
| K | 0058-105-000 | P-clamp | 1 |

Fowler timing link assembly

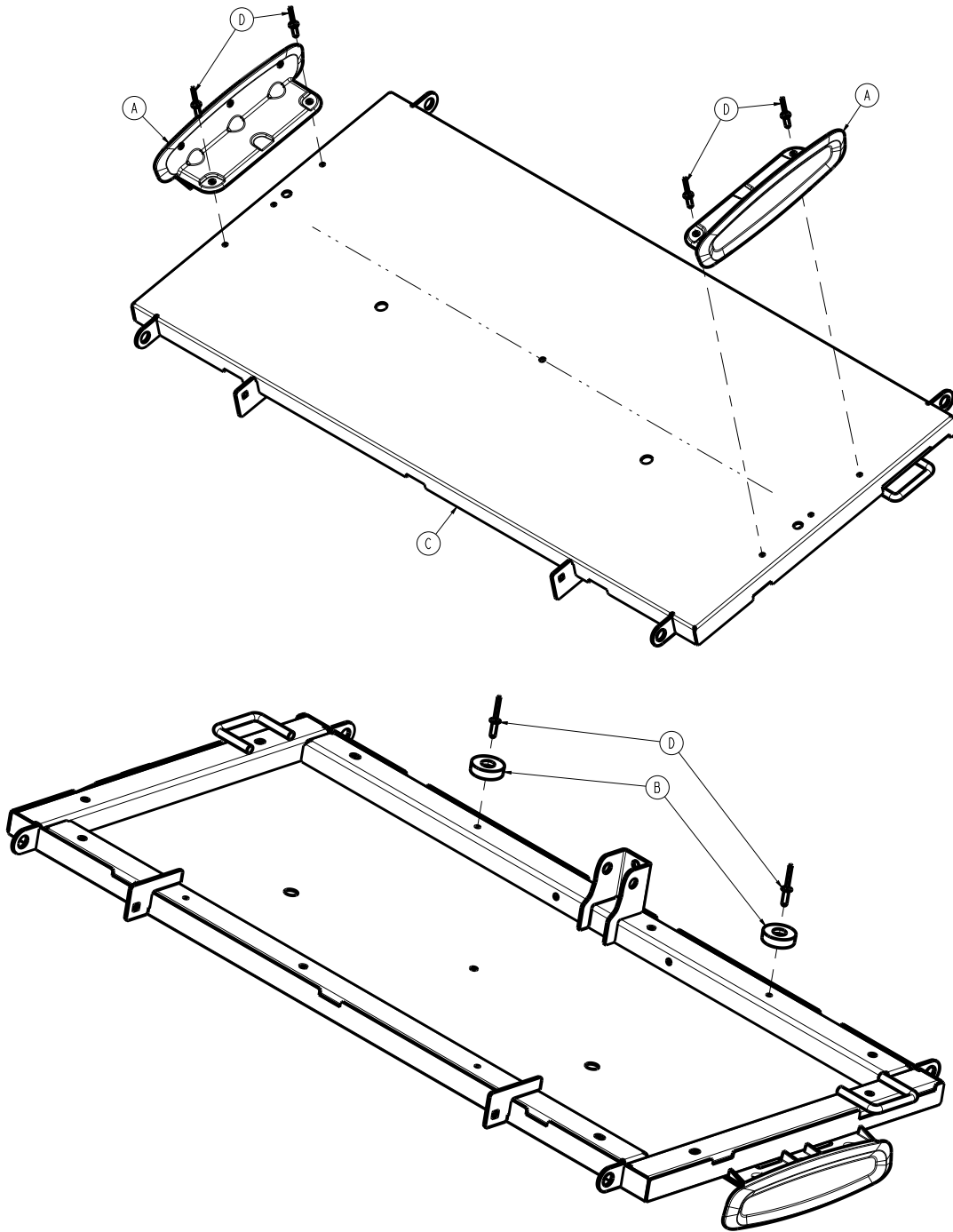
300900120075 Rev AB (Reference only)



| Item | Number | Name | Quantity |
|------|--------------|-----------------------------|----------|
| A | 300900120050 | Fowler timing link weldment | 1 |
| B | 700000521085 | Flange bearing | 4 |

Gatch assembly - 300900140150

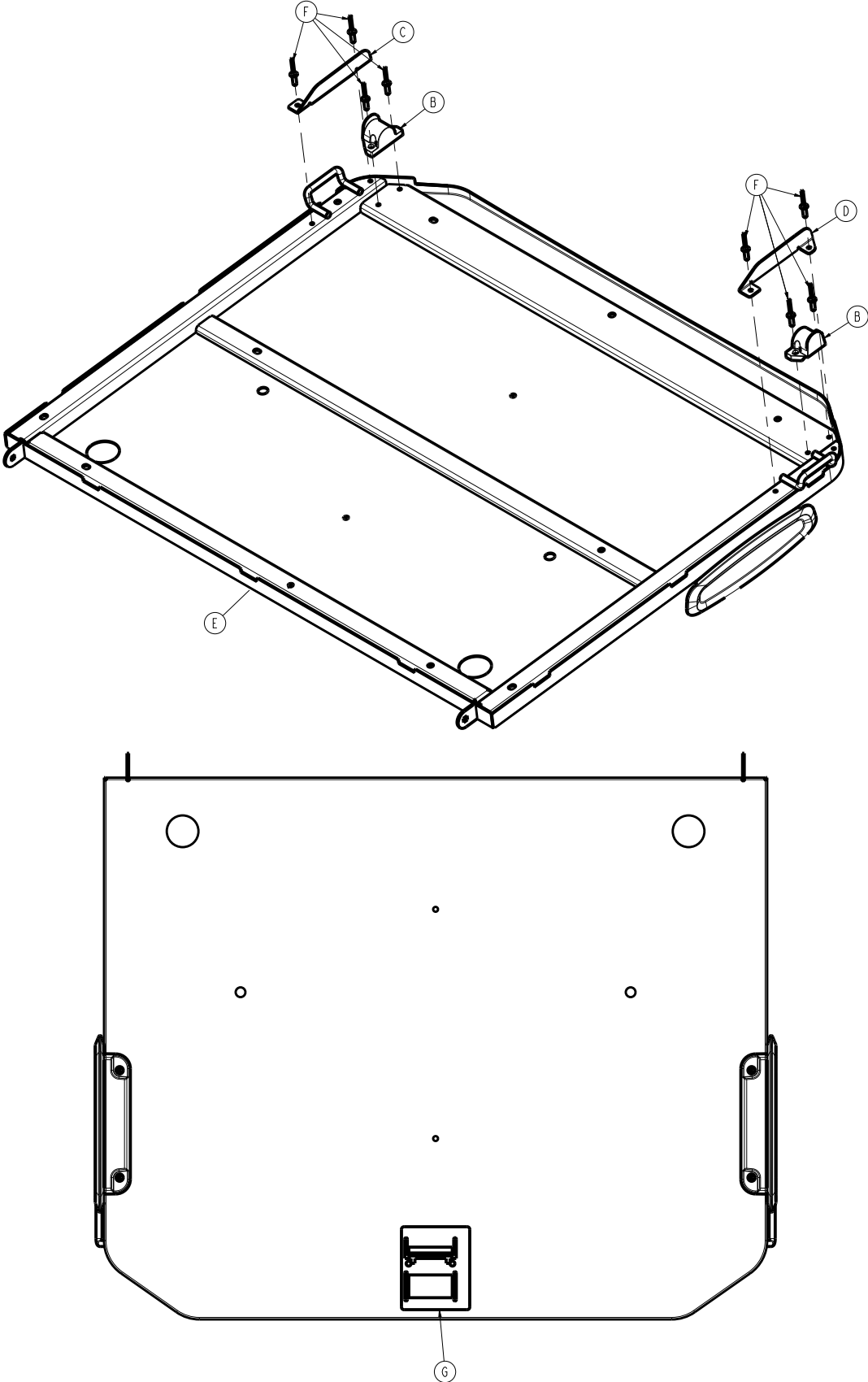
Rev AB (Reference only)



| Item | Number | Name | Quantity |
|------|--------------|-------------------------|----------|
| A | 300900140019 | Gatch mattress retainer | 2 |
| B | 300900140011 | Gatch rest pad | 2 |
| C | 300900140100 | Gatch weldment | 1 |
| D | 700000820540 | Dome head rivet | 6 |

Foot assembly - 300900150150

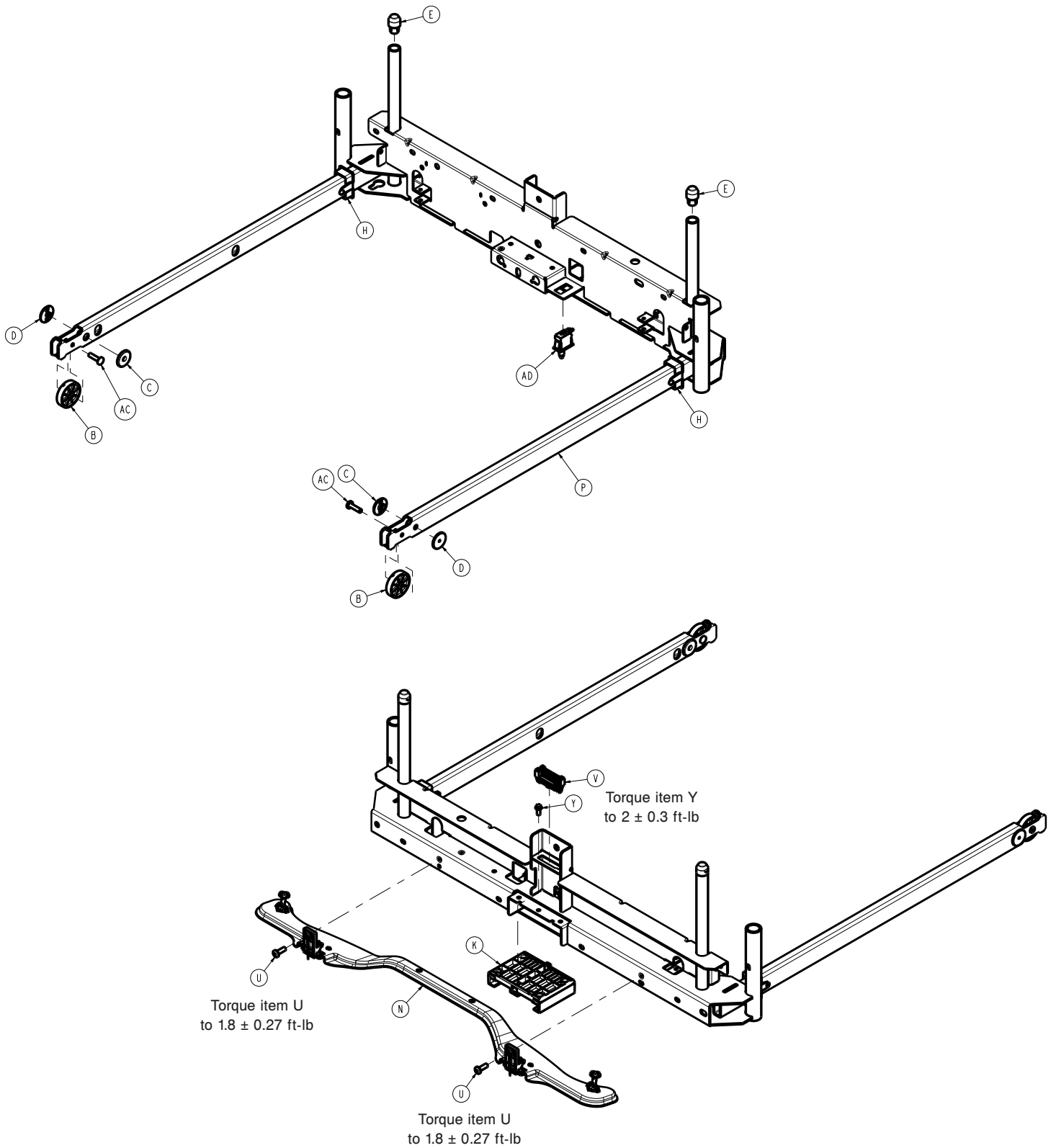
Rev AC (Reference only)

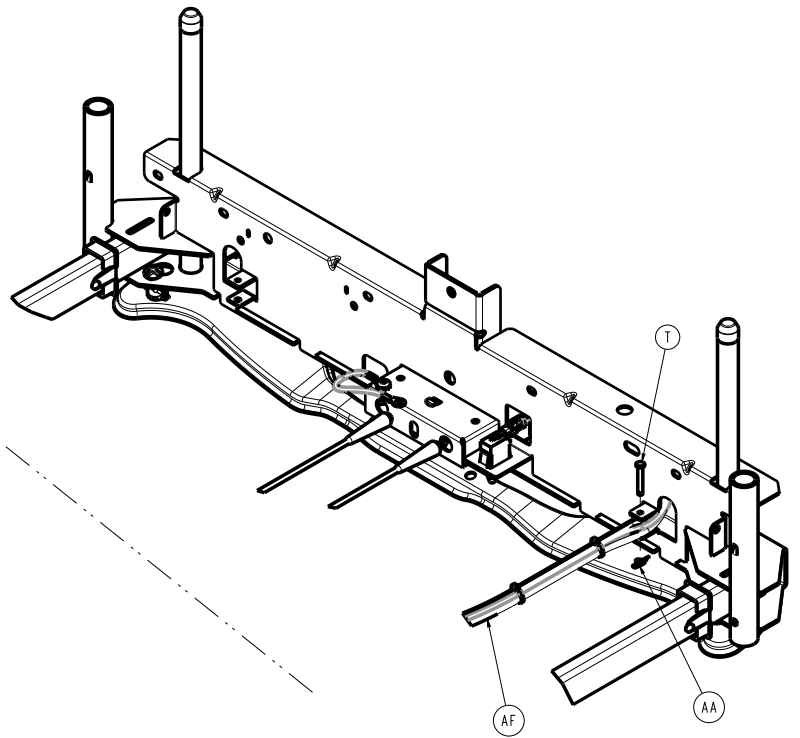
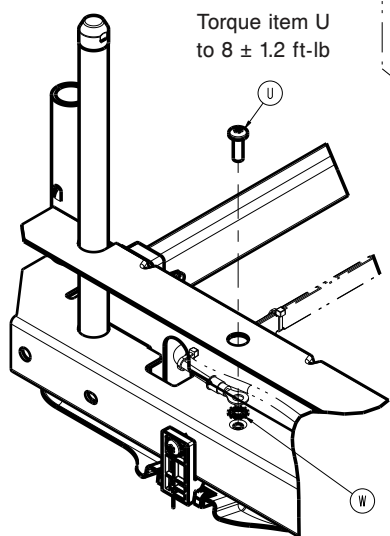
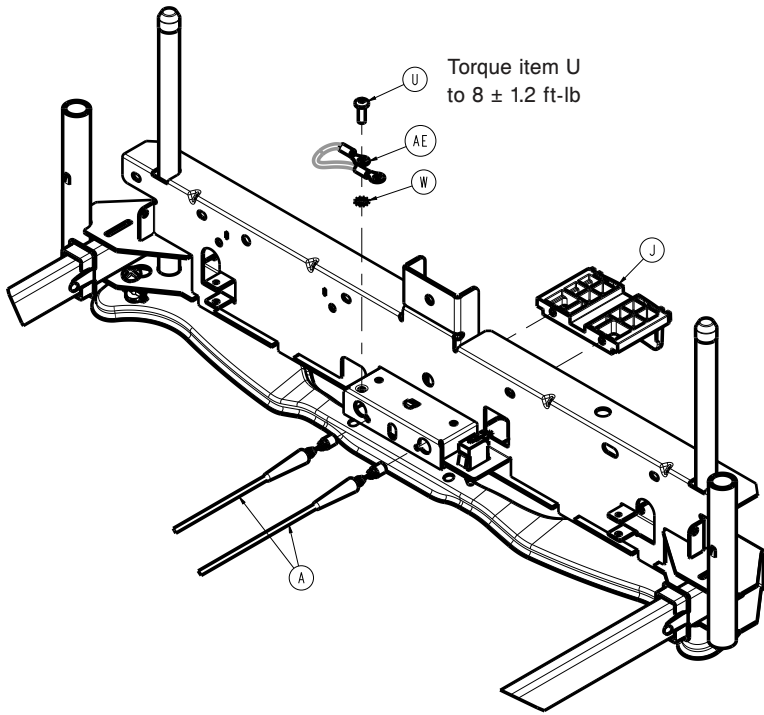


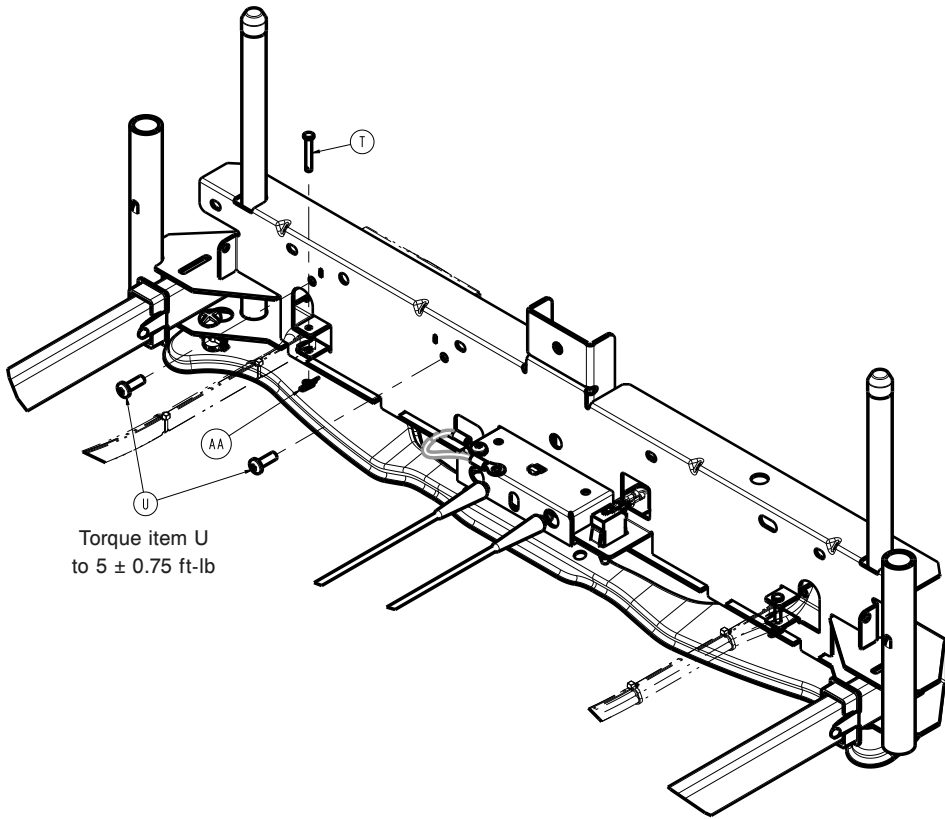
| Item | Number | Name | Quantity |
|-------------|---------------|-------------------------------|-----------------|
| B | 300900150011 | Foot slider | 2 |
| C | 300900150012 | Foot slider guard, right | 1 |
| D | 300900150013 | Foot slider guard, left | 1 |
| E | 300900150100 | Foot weldment | 1 |
| F | 700000820540 | Dome head rivet | 8 |
| G | 300900160009 | Label, mattress compatibility | 1 |

Bed extender assembly

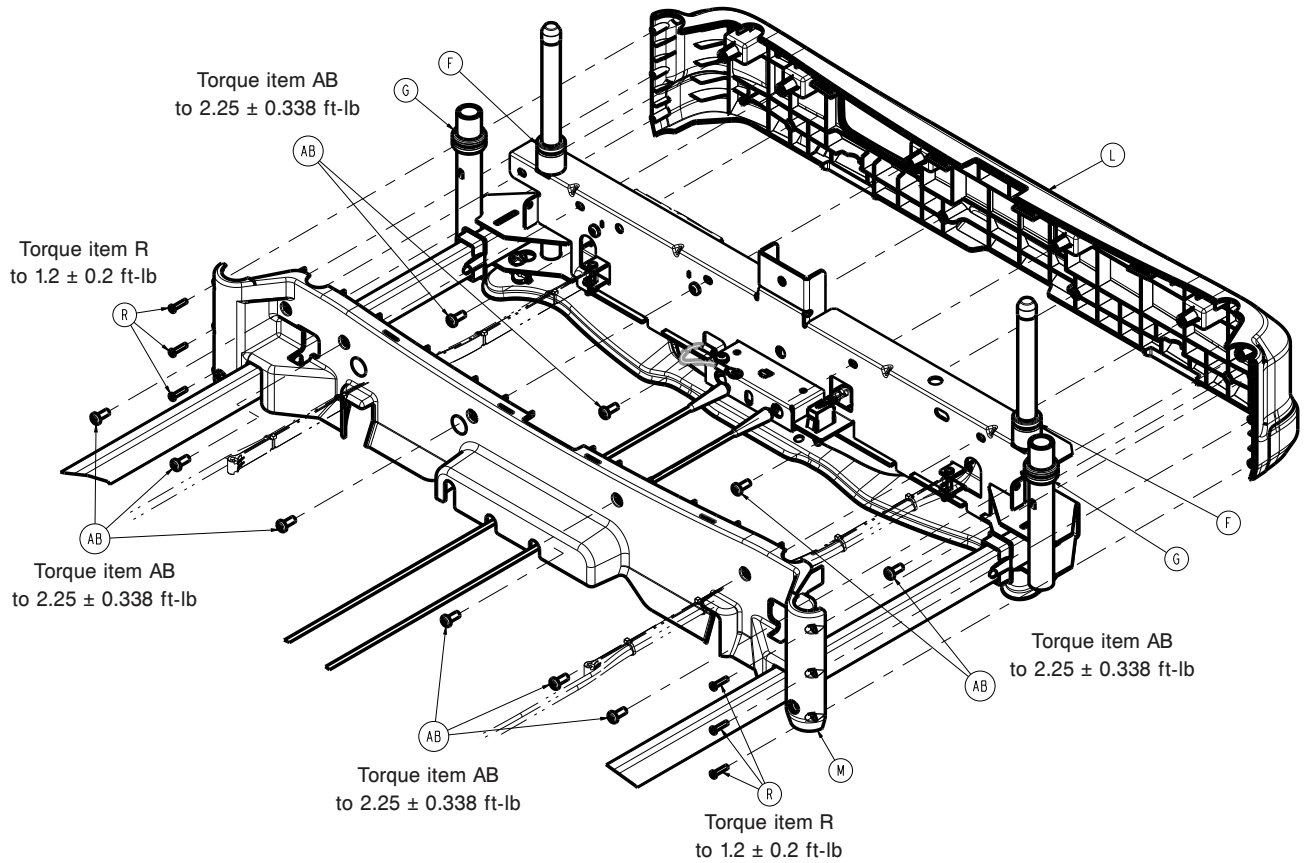
300900670000 Rev AB (Reference only)







Torque item U
to 5 ± 0.75 ft-lb



Torque item AB
to 2.25 ± 0.338 ft-lb

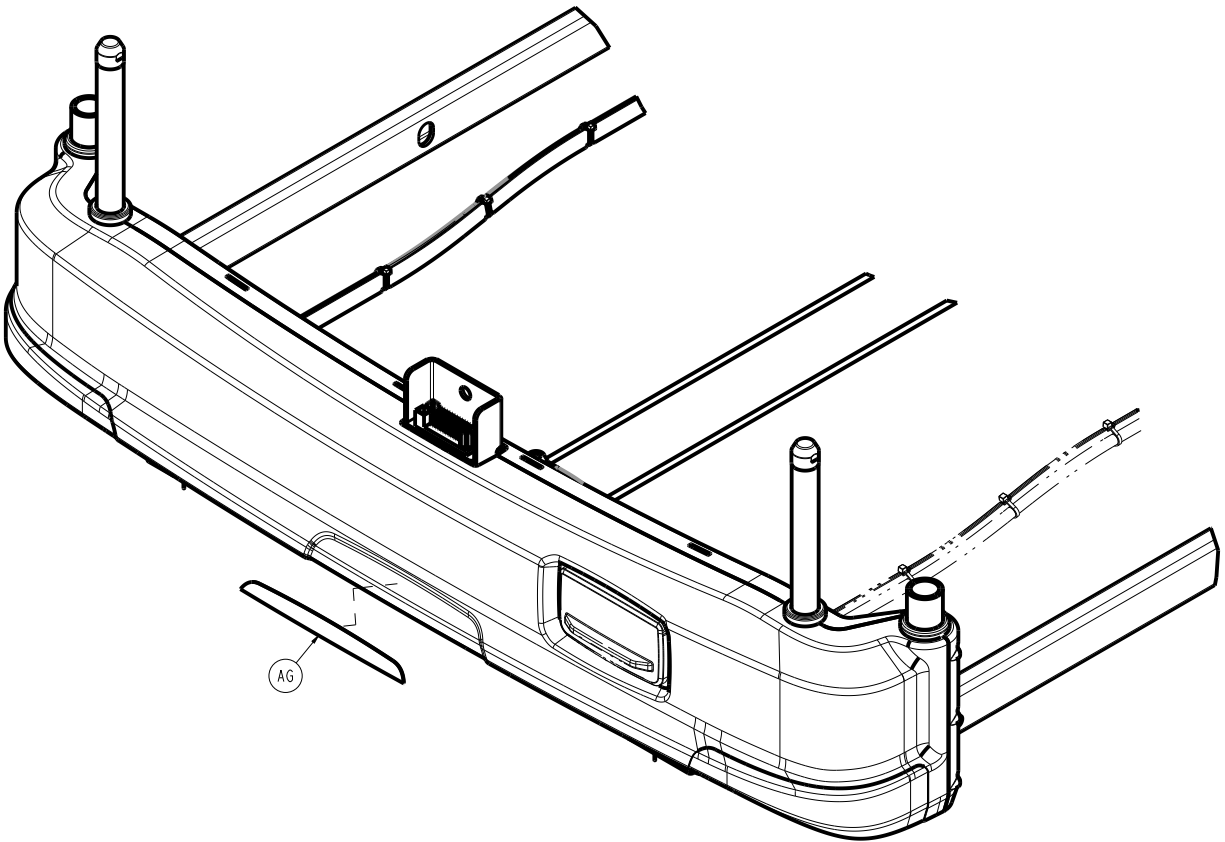
Torque item R
to 1.2 ± 0.2 ft-lb

Torque item AB
to 2.25 ± 0.338 ft-lb

Torque item AB
to 2.25 ± 0.338 ft-lb

Torque item R
to 1.2 ± 0.2 ft-lb

Torque item AB
to 2.25 ± 0.338 ft-lb

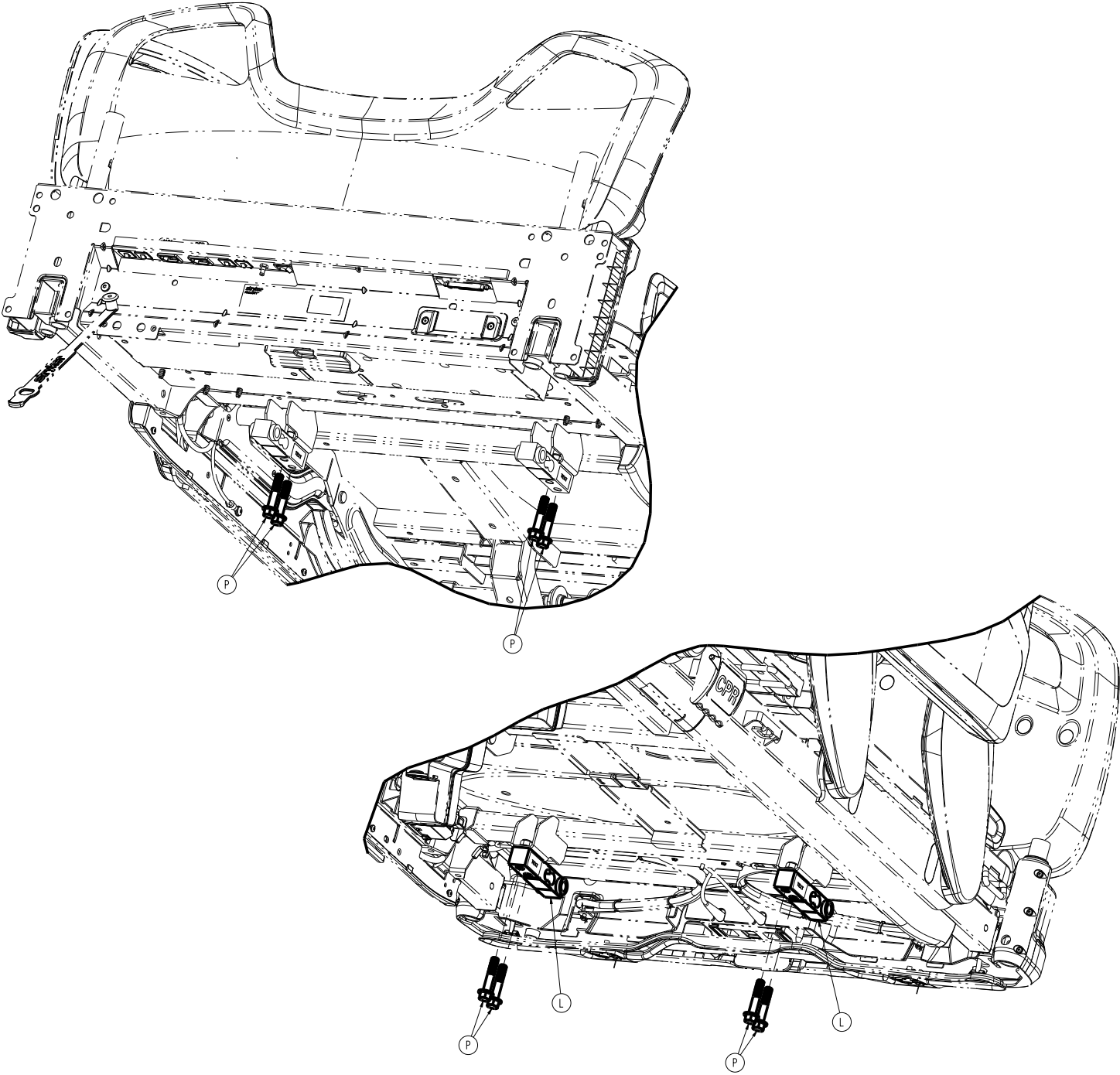


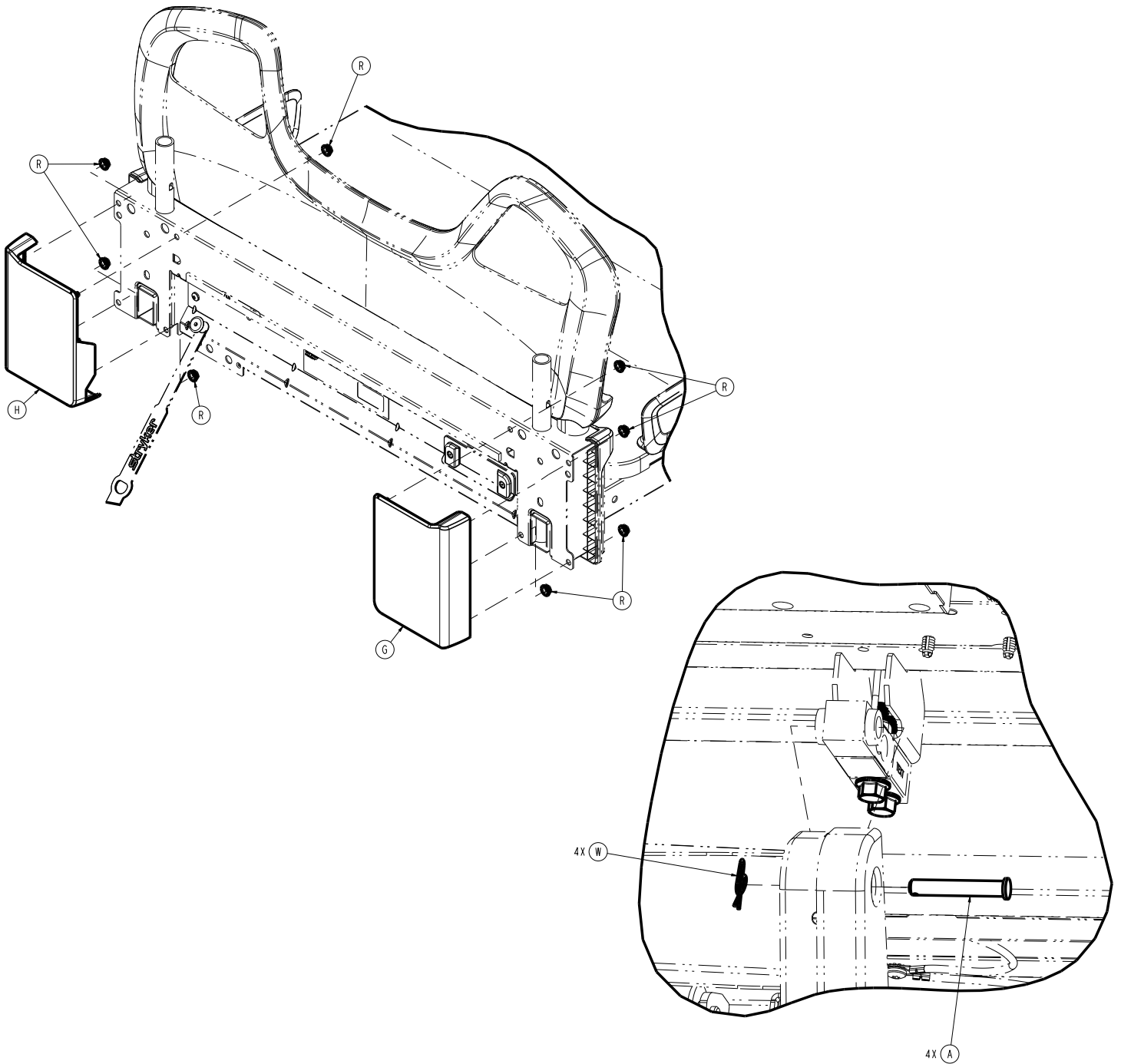
| Item | Number | Name | Quantity |
|------|--------------|---------------------------------|----------|
| A | 300900670009 | Release cable | 2 |
| B | 300900670011 | Roller | 2 |
| C | 300900670012 | Rear bearing pad, inner | 2 |
| D | 300900670013 | Rear bearing pad, outer | 2 |
| E | 300900670014 | Footboard post cap | 2 |
| F | 300900670016 | Footboard cover grommet | 2 |
| G | 300900670017 | Traction cover grommet | 2 |
| H | 300900670018 | Slider guide | 2 |
| J | 300900670021 | Latch handle | 1 |
| K | 300900670022 | Latch handle slide | 1 |
| L | 300900670026 | Front cover | 1 |
| M | 300900670027 | Rear cover | 1 |
| N | 300900670060 | Motion interrupt pan assembly | 1 |
| P | 300900670100 | Frame weldment | 1 |
| R | 700000543840 | Truss head thread forming screw | 6 |
| T | 700000661688 | Clevis pin | 2 |
| U | 700000775295 | Pan head thread rolling screw | 6 |
| V | 700000820484 | Blind mating connector | 1 |
| W | 0013-010-000 | External tooth lock washer | 2 |
| Y | 0023-126-000 | Hex washer head fastener | 1 |
| AA | 0027-020-000 | Rue ring cotter | 2 |
| AB | 0050-086-000 | Pan head machine screw | 10 |
| AC | 0753-003-098 | Flat head rivet | 2 |
| AD | 3000-300-058 | Plunger switch | 1 |

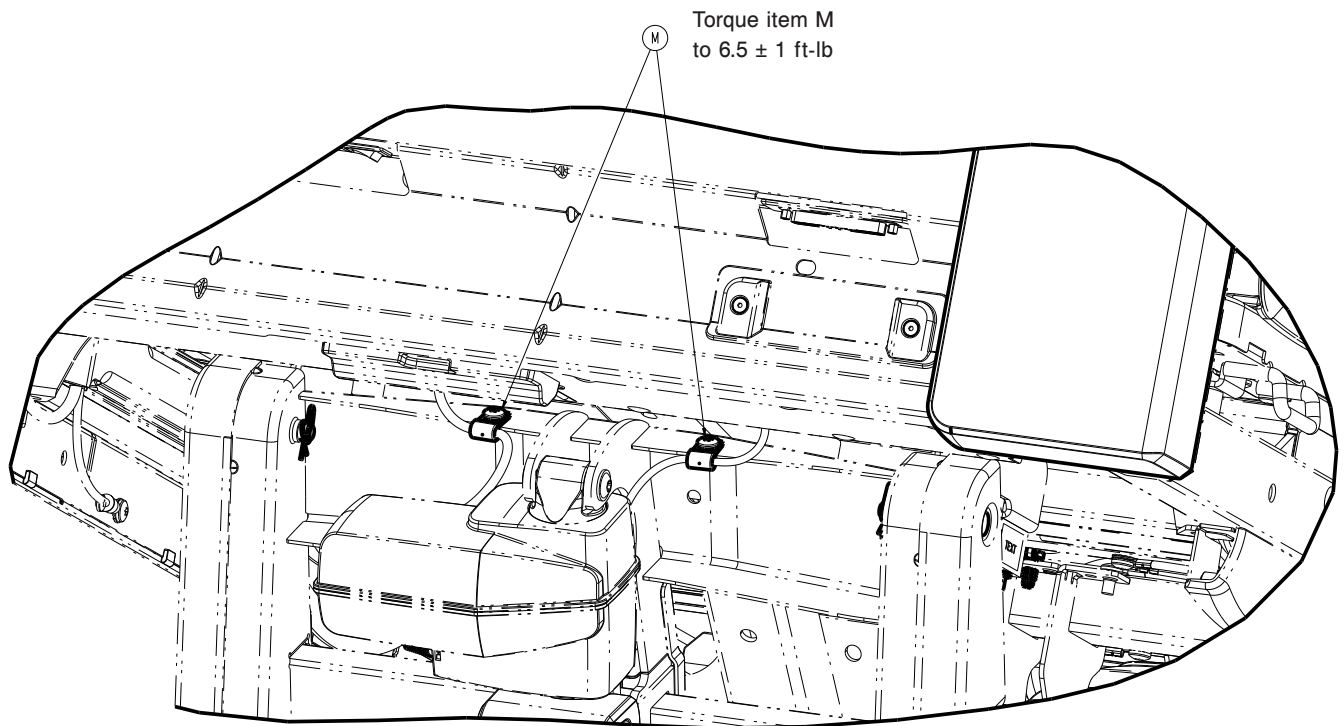
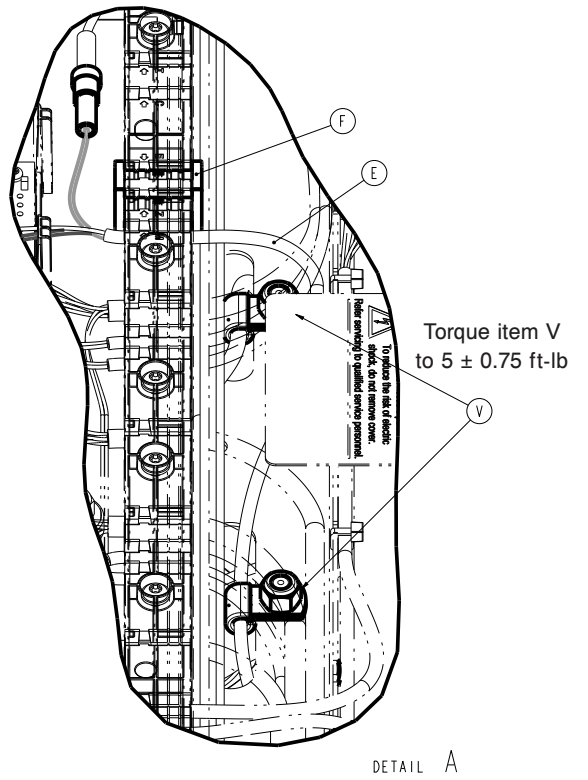
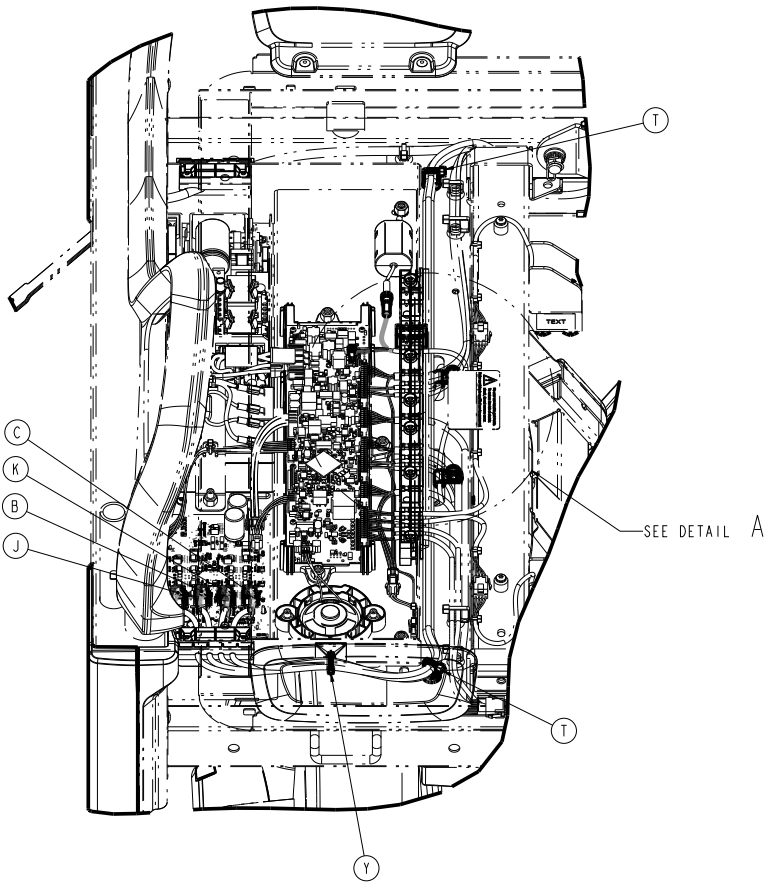
| Item | Number | Name | Quantity |
|-------------|---------------|----------------------|-----------------|
| AE | 3002-300-870 | Litter ground jumper | 1 |
| AF | 300900100822 | Cable assembly | 1 |
| AG | 300900670701 | Label, bed extender | 1 |

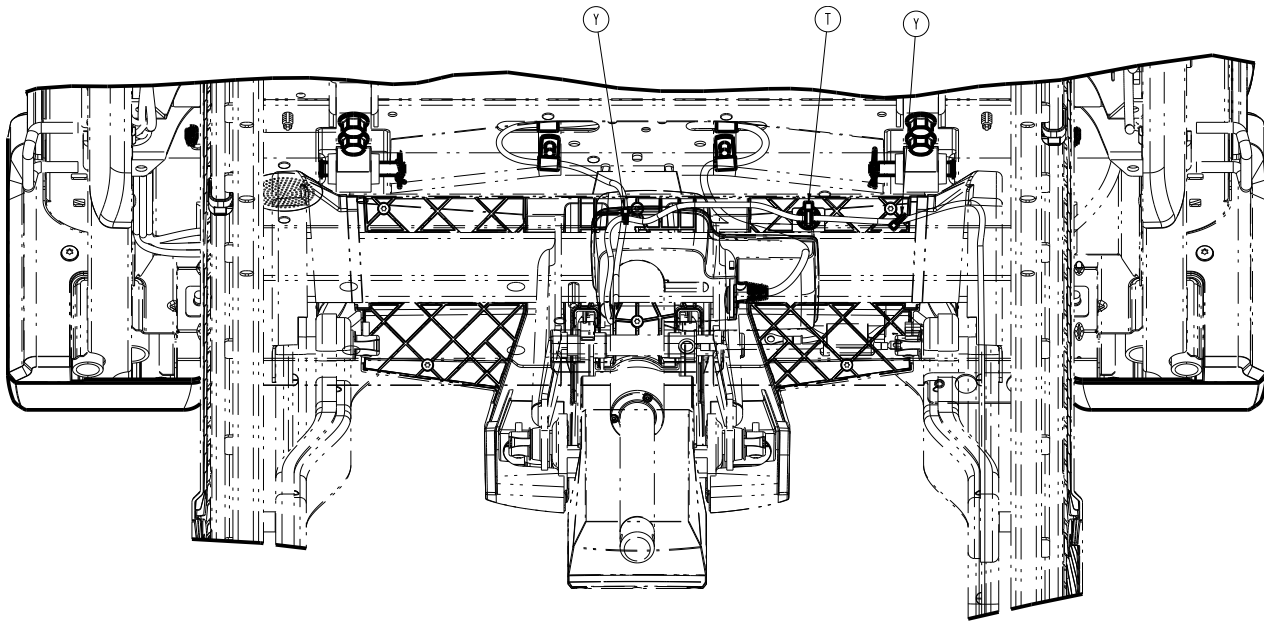
Manual brakes assembly

300900030250 Rev AB (Reference only)

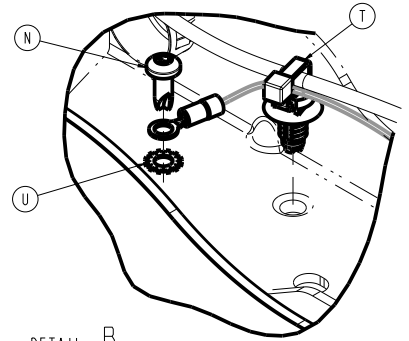






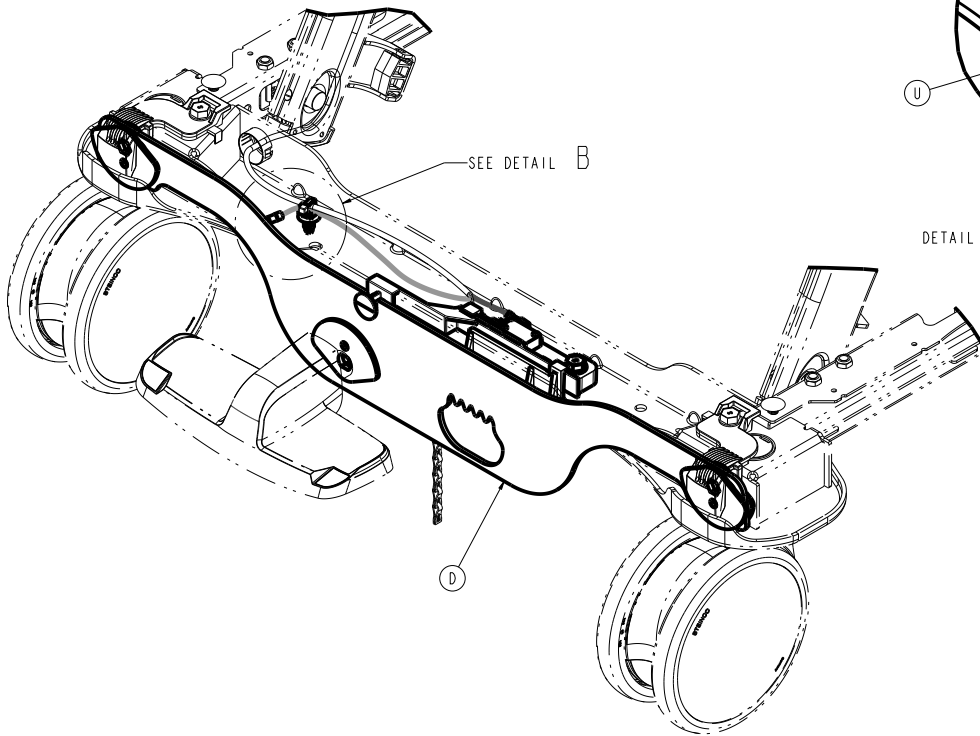


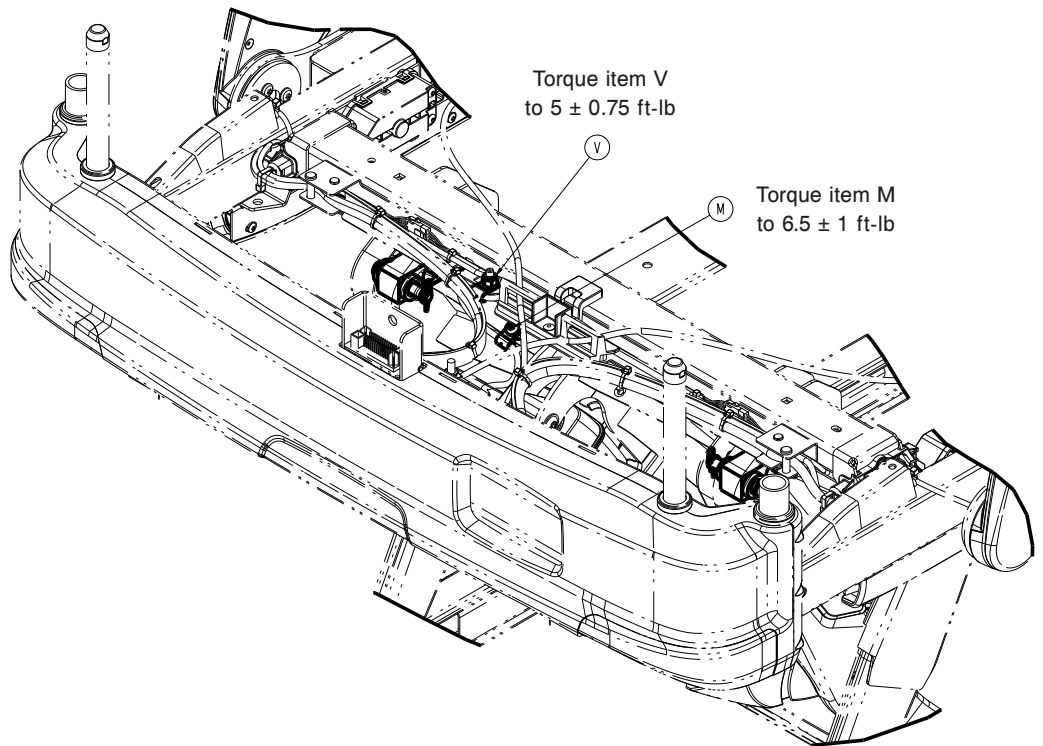
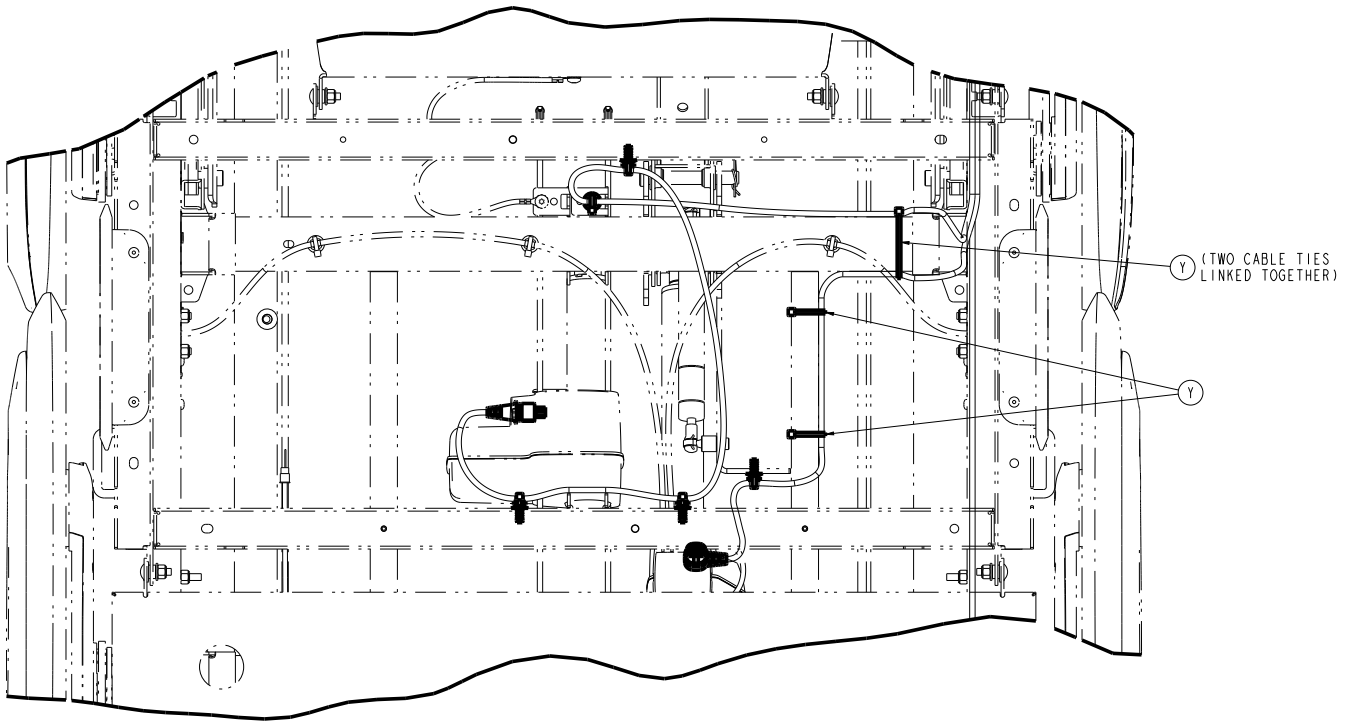
Torque item N
to 5 ± 0.75 ft-lb



SEE DETAIL B

DETAIL B



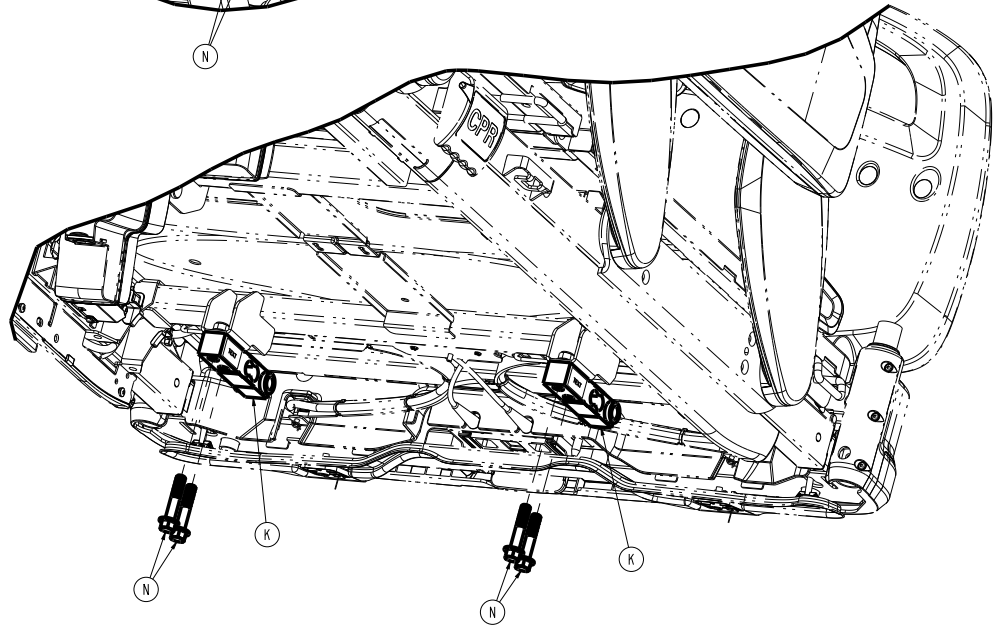
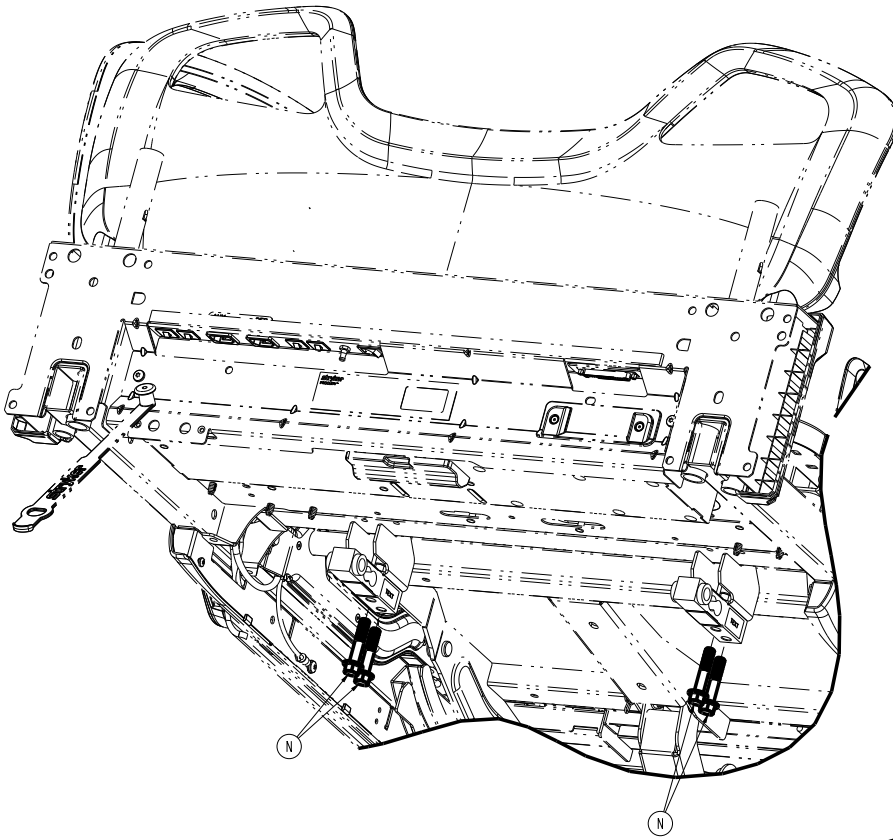


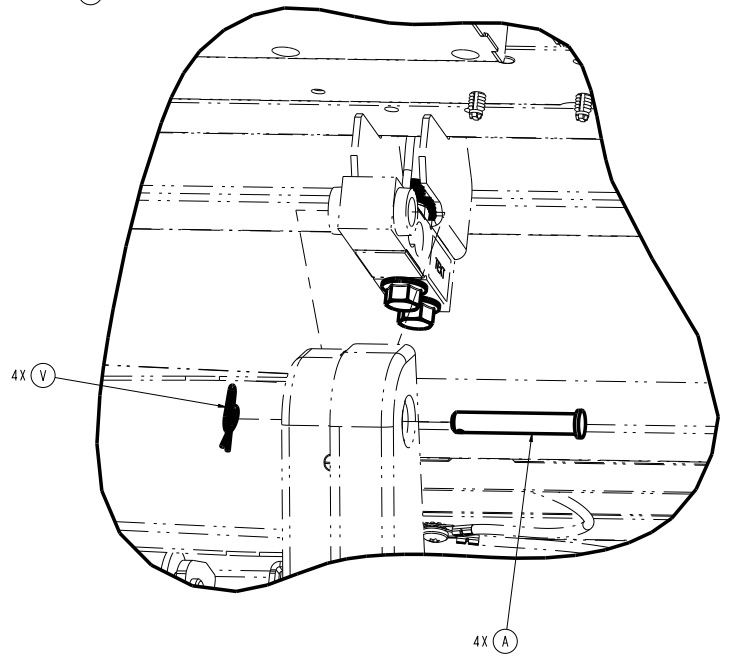
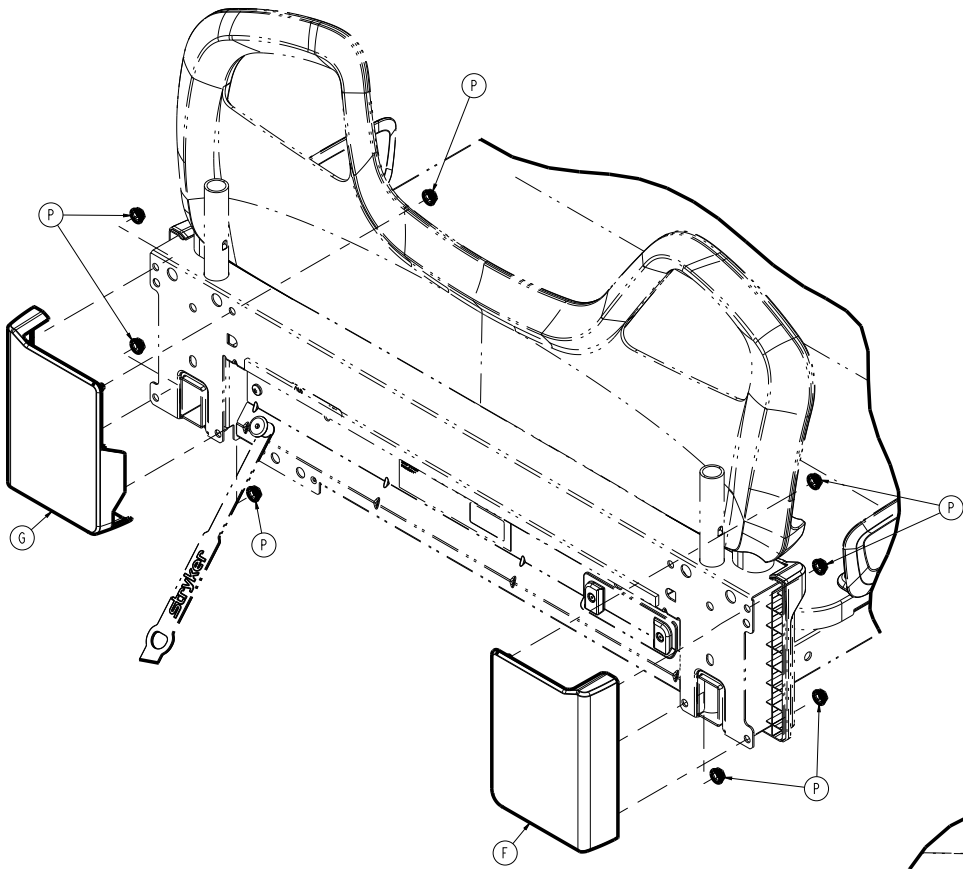
| Item | Number | Name | Quantity |
|------|--------------|--|----------|
| A | 300900020027 | Lift loadcell pin | 4 |
| B | 300900020870 | Lift actuator cable, head end | 1 |
| C | 300900020875 | Lift actuator cable, foot end | 1 |
| D | 300900030100 | Manual brakes base assembly (page 99) | 1 |
| E | 300900030810 | Cable assembly | 1 |
| F | 300900100016 | Litter electronics box manual brake plug | 1 |

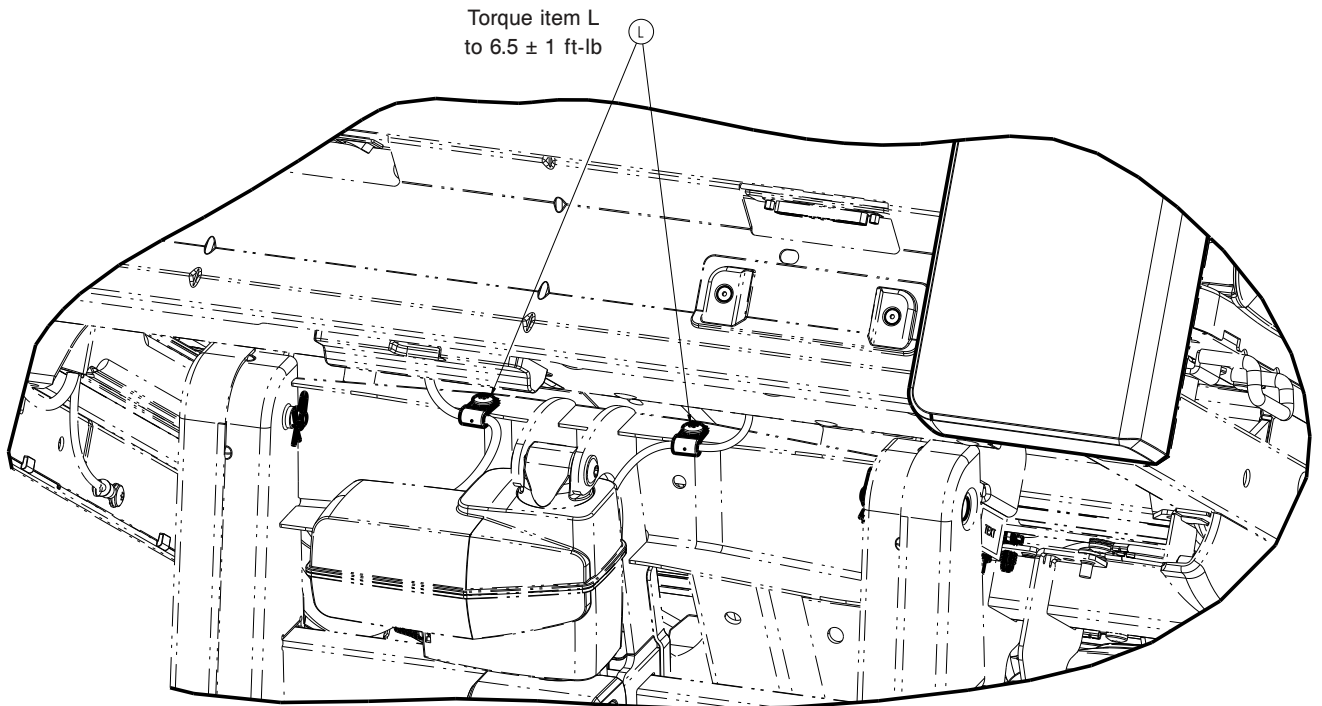
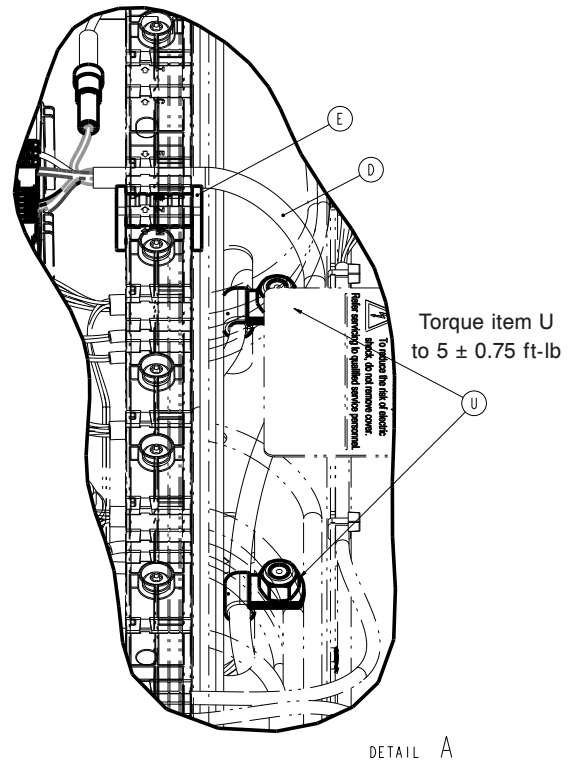
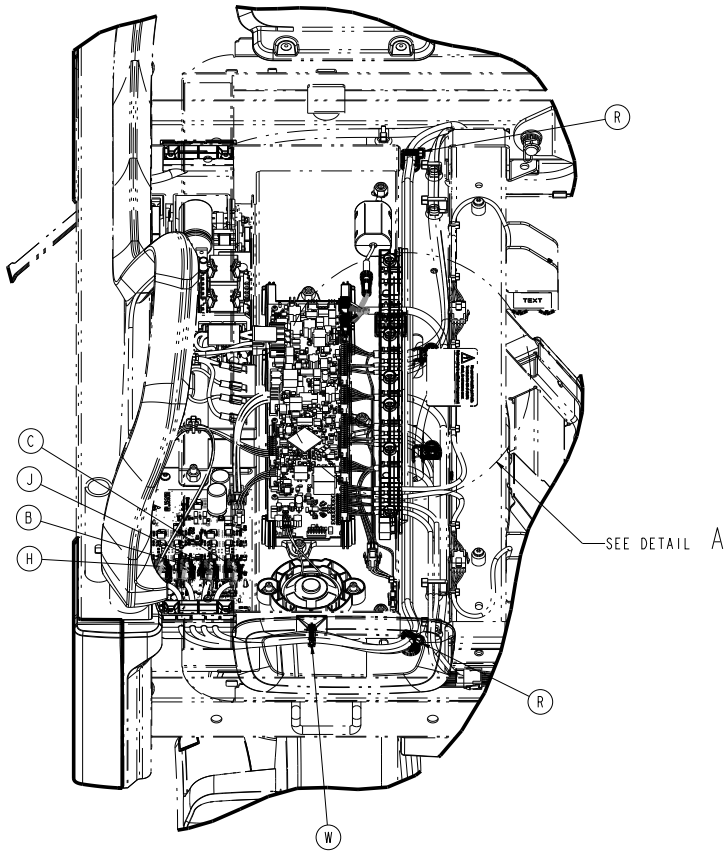
| Item | Number | Name | Quantity |
|------|--------------|---|----------|
| G | 300900100168 | Litter head end bumper, right | 1 |
| H | 300900100169 | Litter head end bumper, left | 1 |
| J | 300900120875 | Fowler actuator cable | 1 |
| K | 300900140875 | Gatch actuator cable | 1 |
| L | 300900370855 | Non-Zoom foot end loadcell cable assembly | 2 |
| M | 700000336076 | Pan head thread rolling screw | 3 |
| N | 700000668696 | Pan head thread cutting screw | 1 |
| P | 700000717577 | Hex flange screw | 8 |
| R | 700000741214 | Thread cutting nut | 8 |
| T | 700000816940 | Tree mount | 4 |
| U | 0013-018-000 | External tooth lock washer | 1 |
| V | 0016-028-000 | Nylock hex nut | 3 |
| W | 0027-022-000 | Rue ring cotter | 4 |
| Y | 3000-300-113 | Cable tie | 6 |

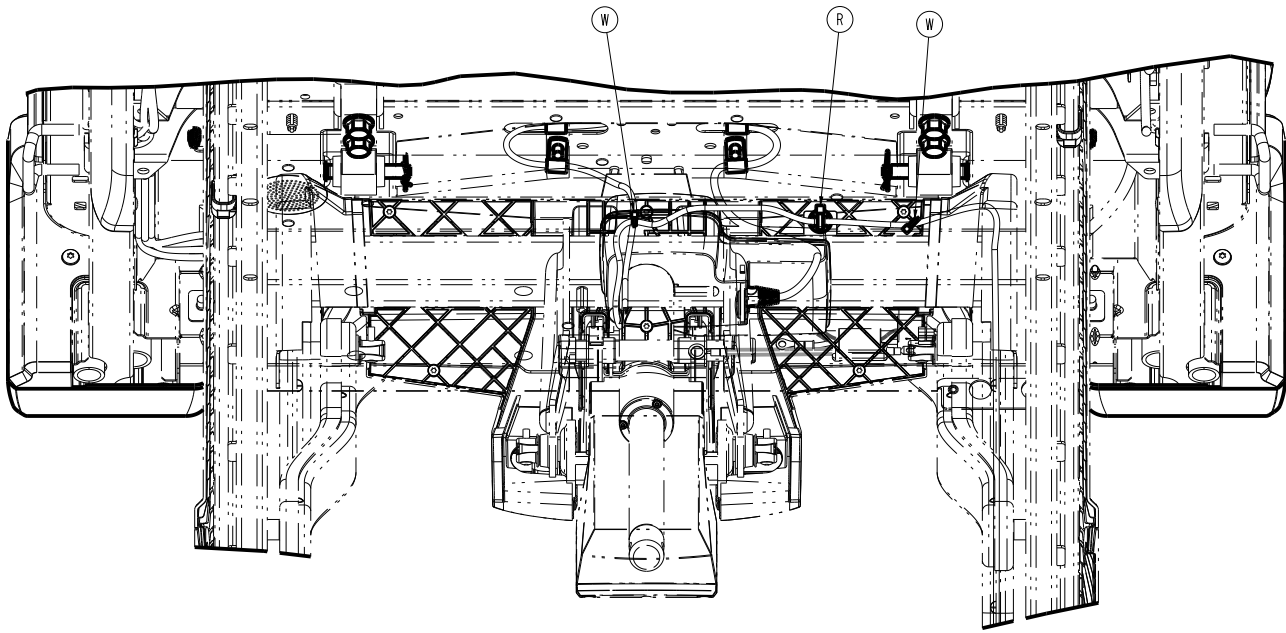
Electric brakes assembly

300900030350 Rev AB (Reference only)

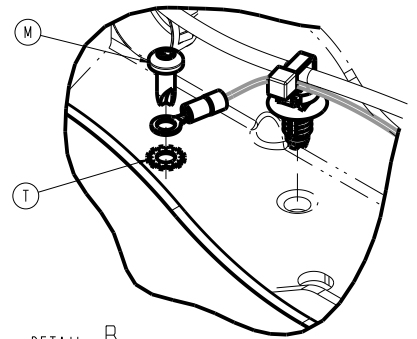




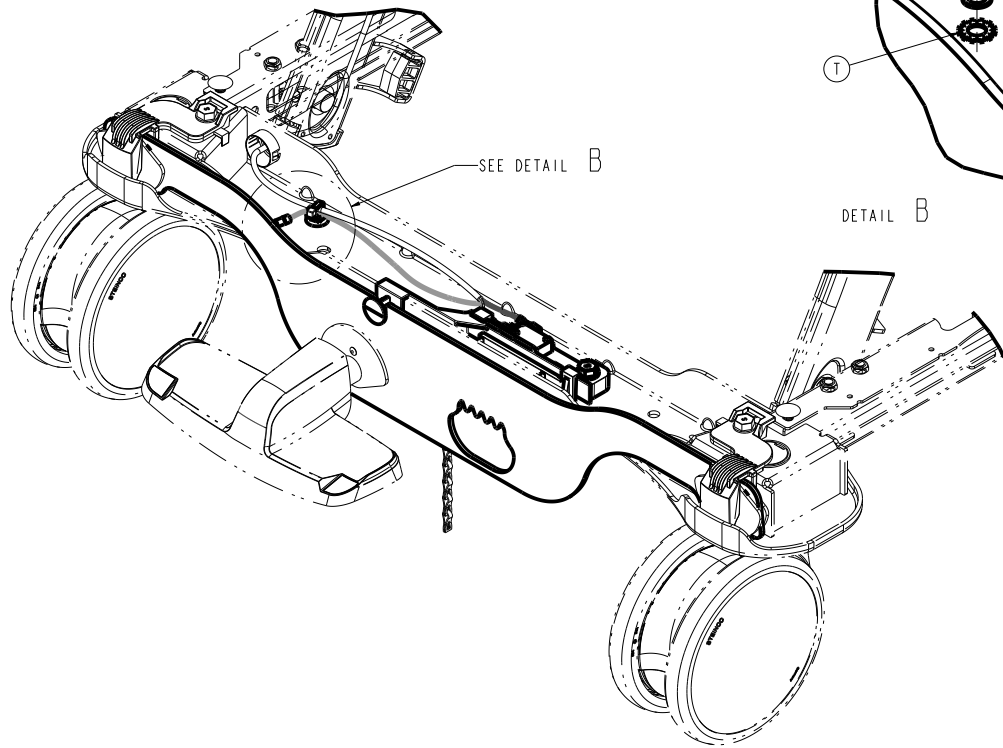


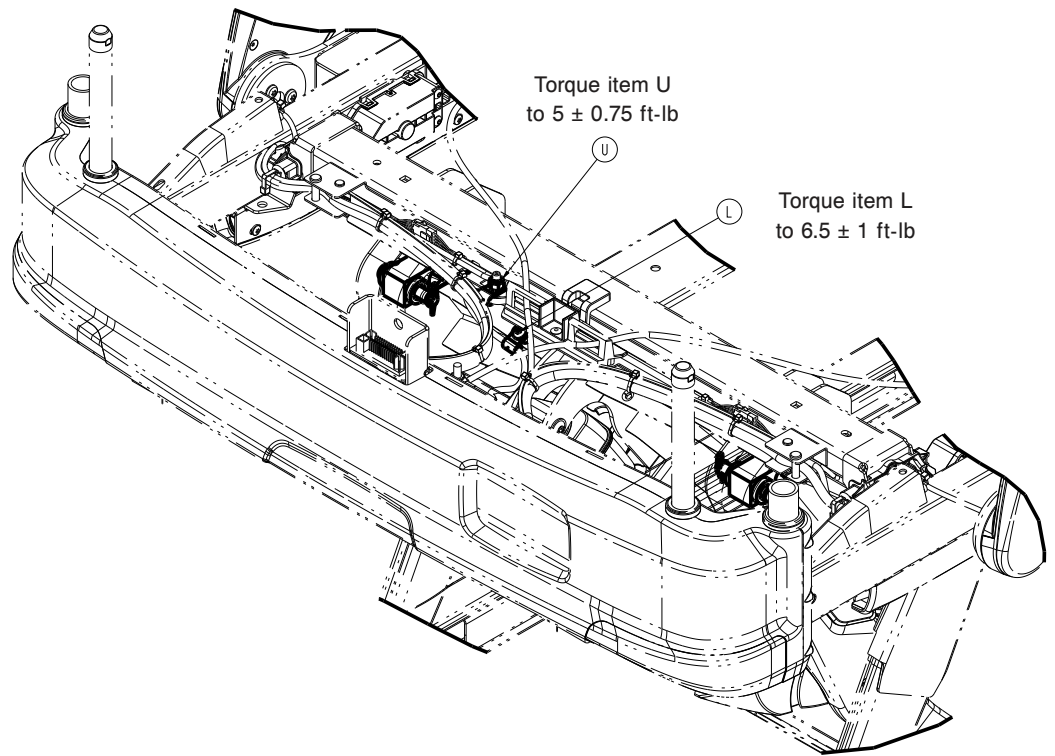
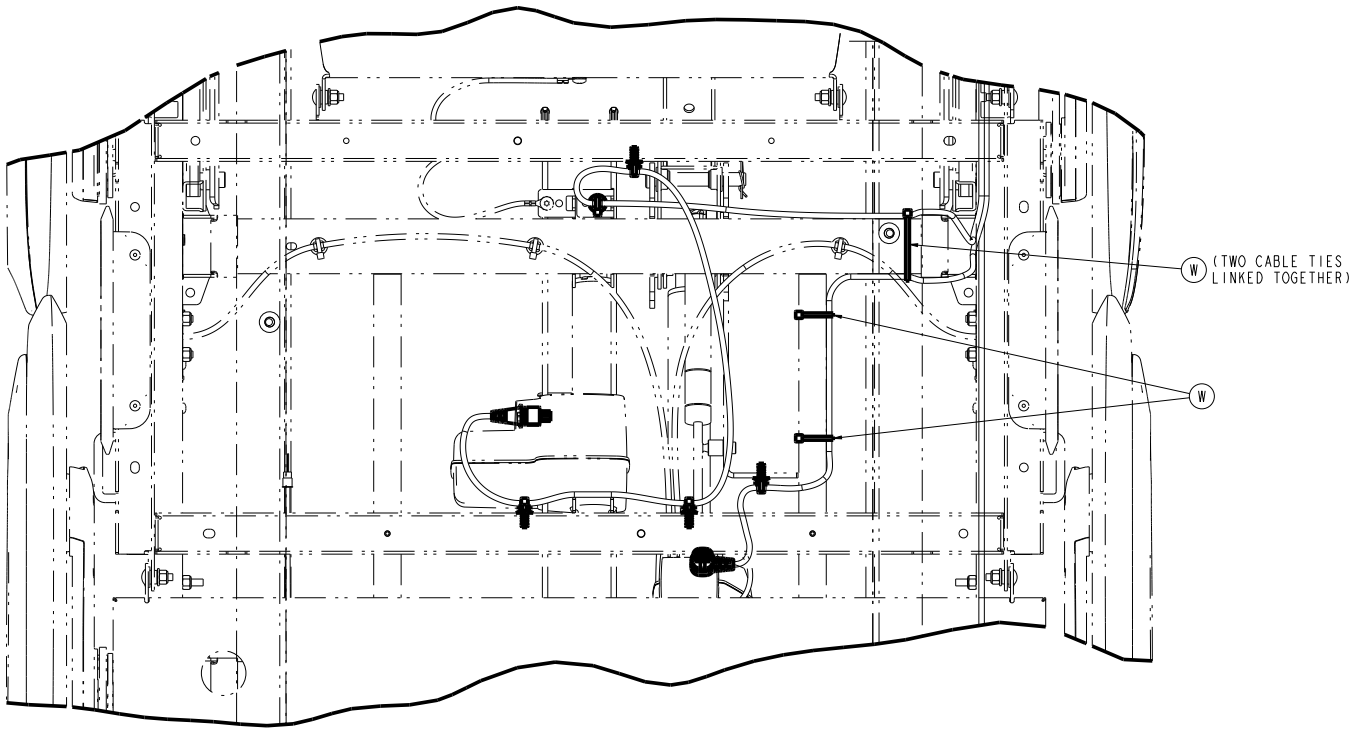


Torque item M
to 5 ± 0.75 ft-lb



DETAIL B





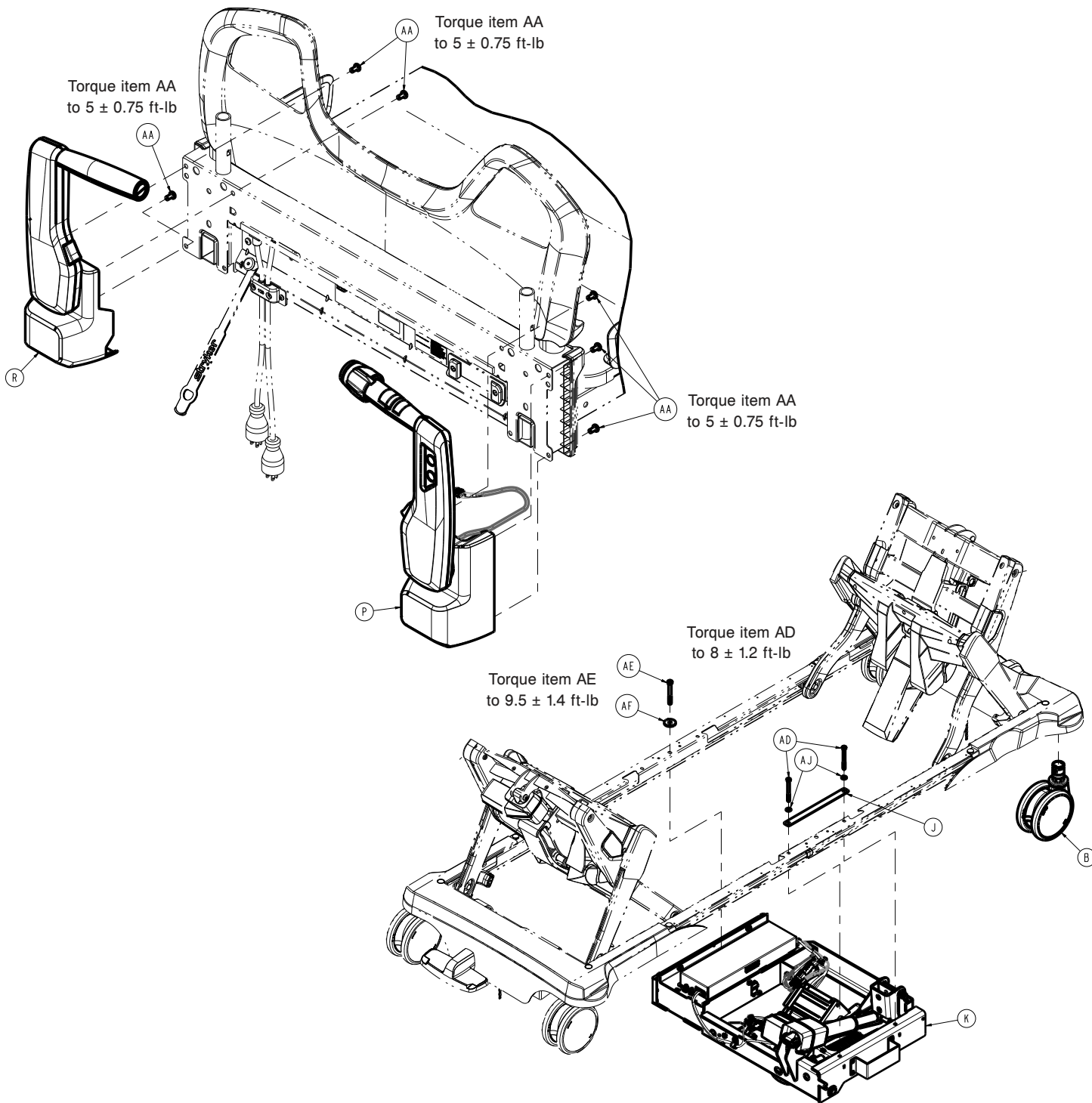
| Item | Number | Name | Quantity |
|------|--------------|--|----------|
| A | 300900020027 | Lift loadcell pin | 4 |
| B | 300900020870 | Lift actuator cable, head end | 1 |
| C | 300900020875 | Lift actuator cable, foot end | 1 |
| D | 300900030820 | Cable assembly | 1 |
| E | 300900100017 | Litter electronics box electric brake plug | 1 |
| F | 300900100168 | Litter head end bumper, right | 1 |
| G | 300900100169 | Litter head end bumper, left | 1 |

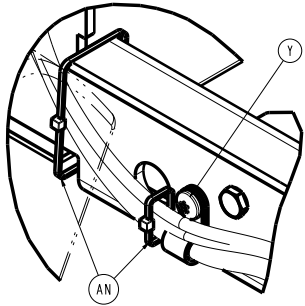
| Item | Number | Name | Quantity |
|------|--------------|---|----------|
| H | 300900120875 | Fowler actuator cable | 1 |
| J | 300900140875 | Gatch actuator cable | 1 |
| K | 300900370855 | Non-Zoom foot end loadcell cable assembly | 2 |
| L | 700000336076 | Pan head thread rolling screw | 3 |
| M | 700000668696 | Pan head thread cutting screw | 1 |
| N | 700000717577 | Hex flange screw | 8 |
| P | 700000741214 | Thread cutting nut | 8 |
| R | 700000816940 | Tree mount | 3 |
| T | 0013-018-000 | External tooth lock washer | 1 |
| U | 0016-028-000 | Nylock hex nut | 3 |
| V | 0027-022-000 | Rue ring cotter | 4 |
| W | 3000-300-113 | Cable tie | 9 |

Zoom assembly

300900070150 Rev AC (Reference only)

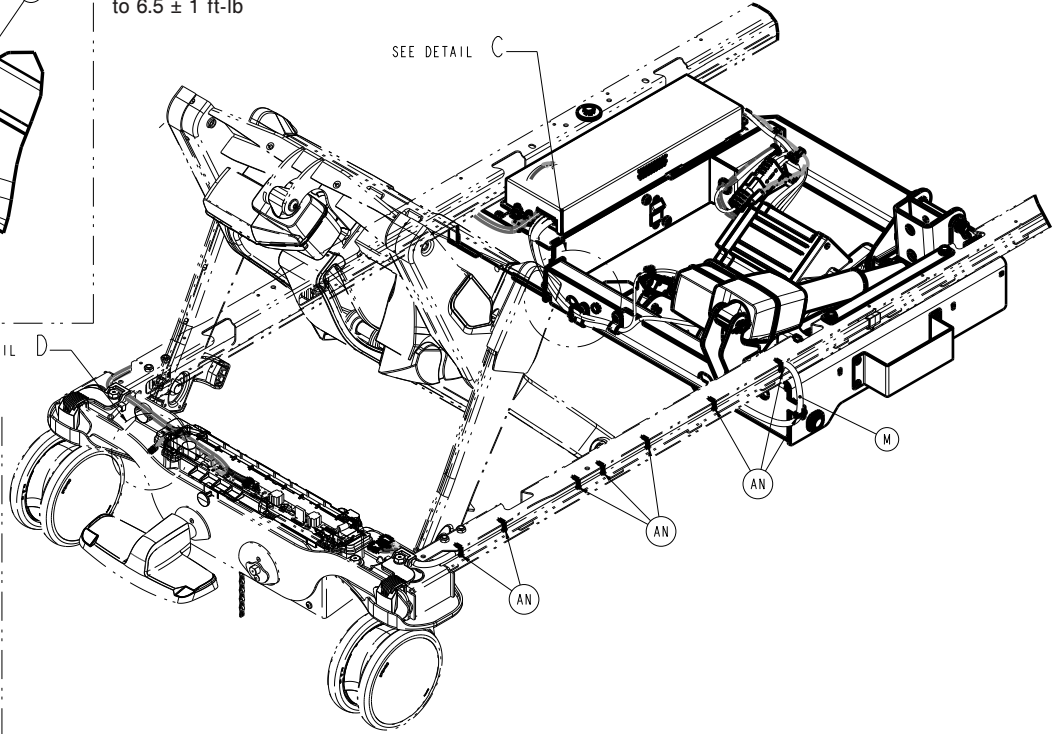






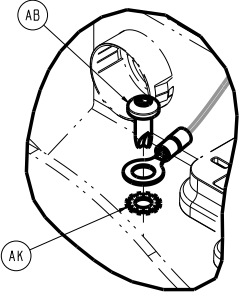
Torque item Y
to 6.5 ± 1 ft-lb

DETAIL C

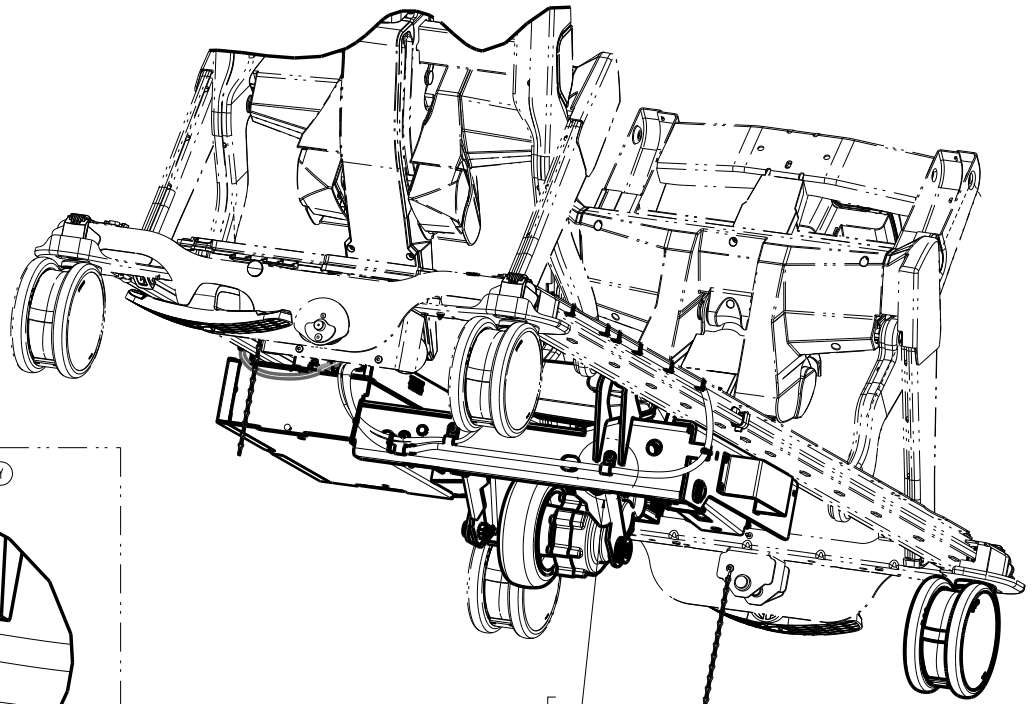


Torque item AB
to 5 ± 0.75 ft-lb

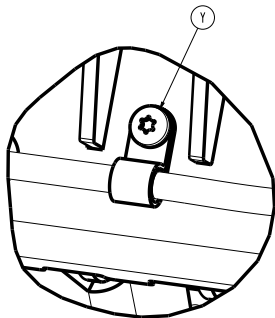
SEE DETAIL D



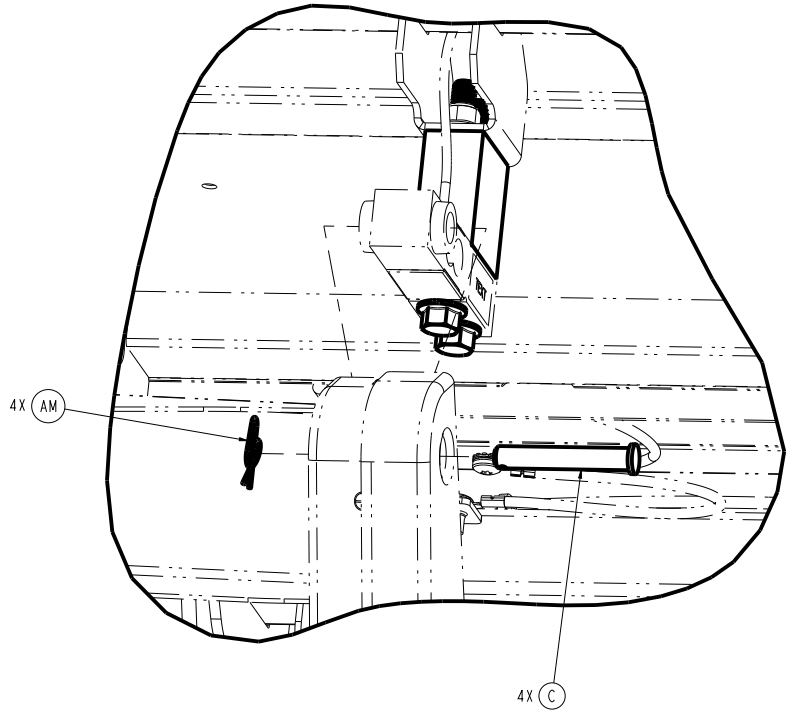
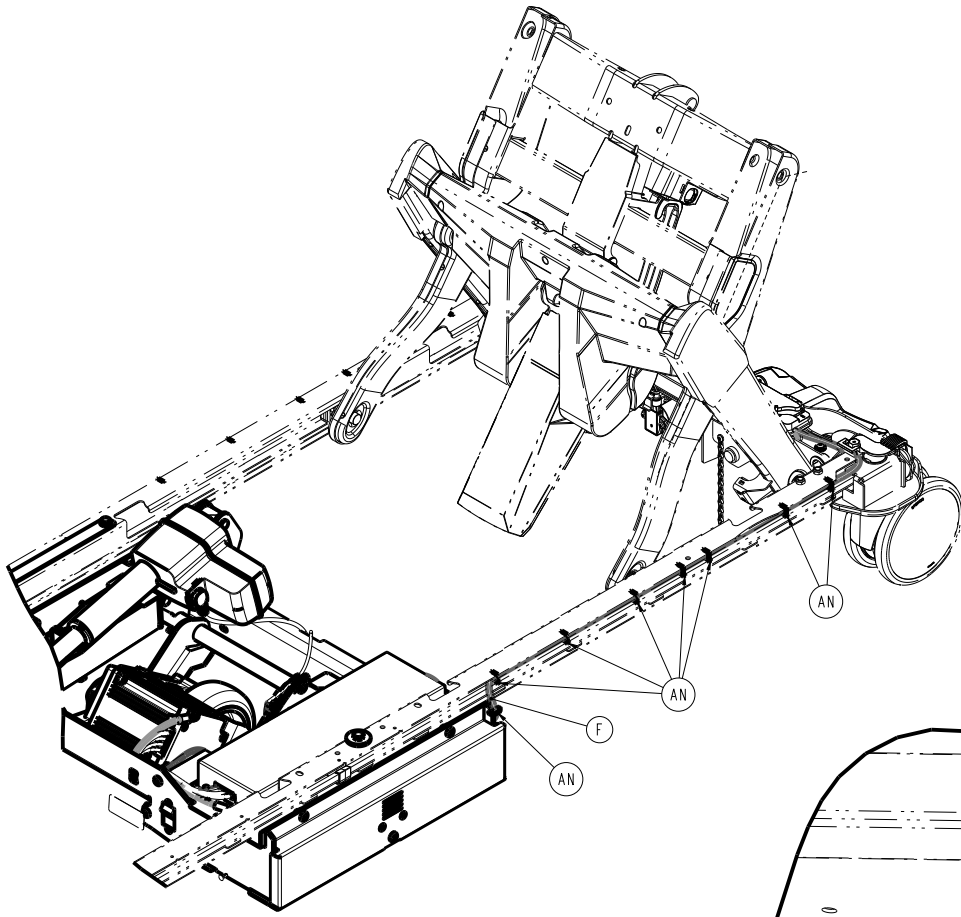
DETAIL D

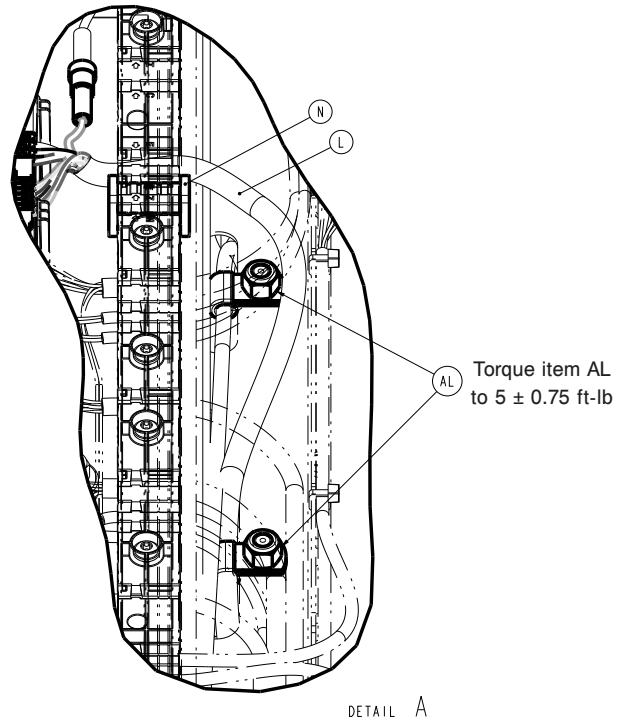
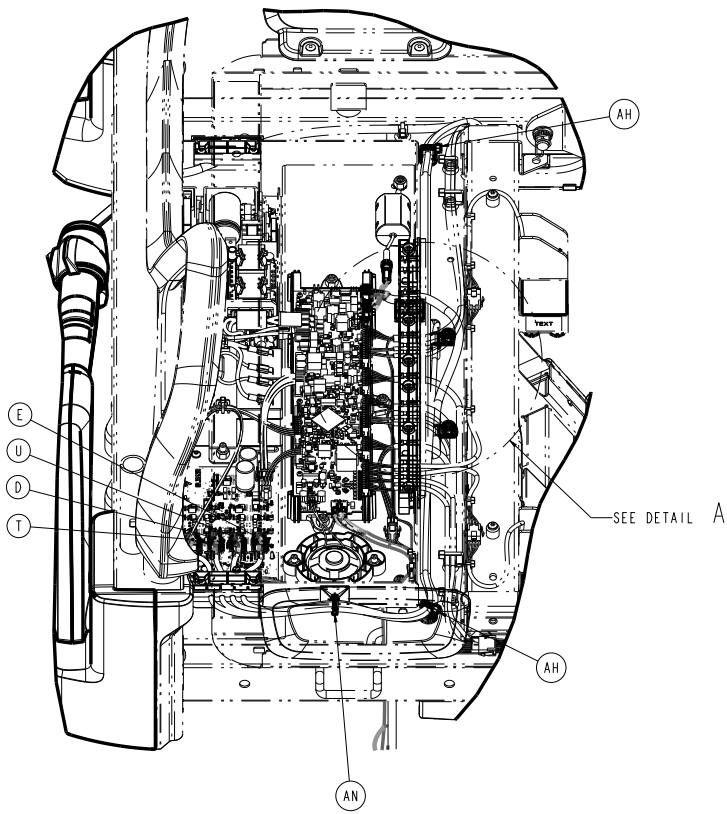


Torque item Y
to 6.5 ± 1 ft-lb

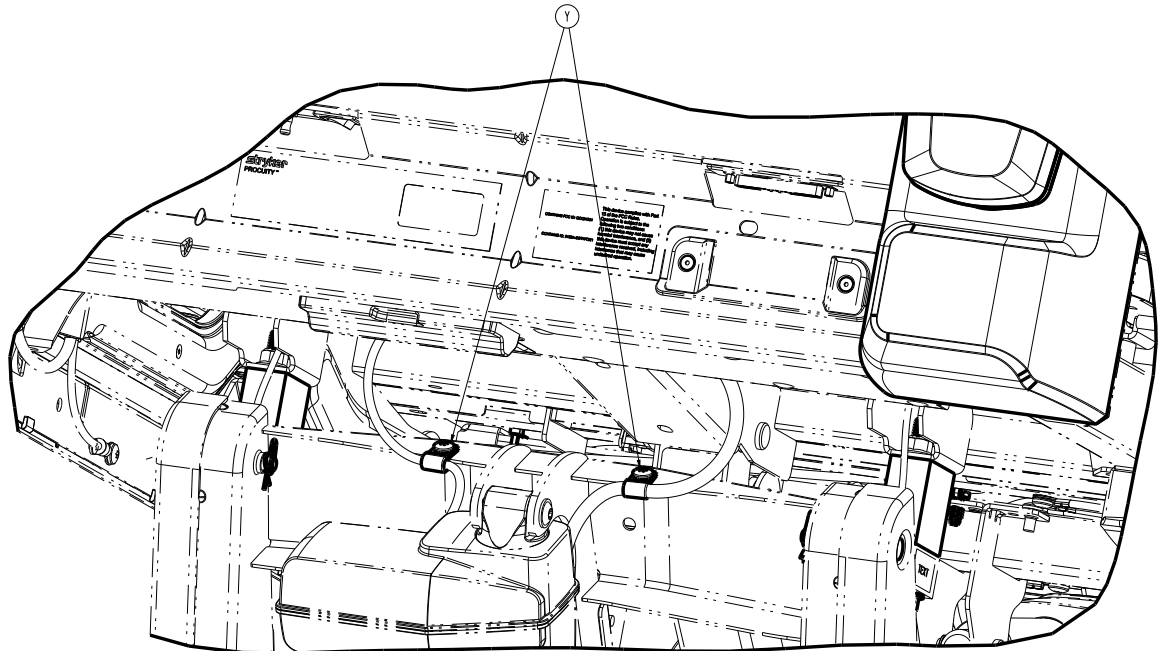


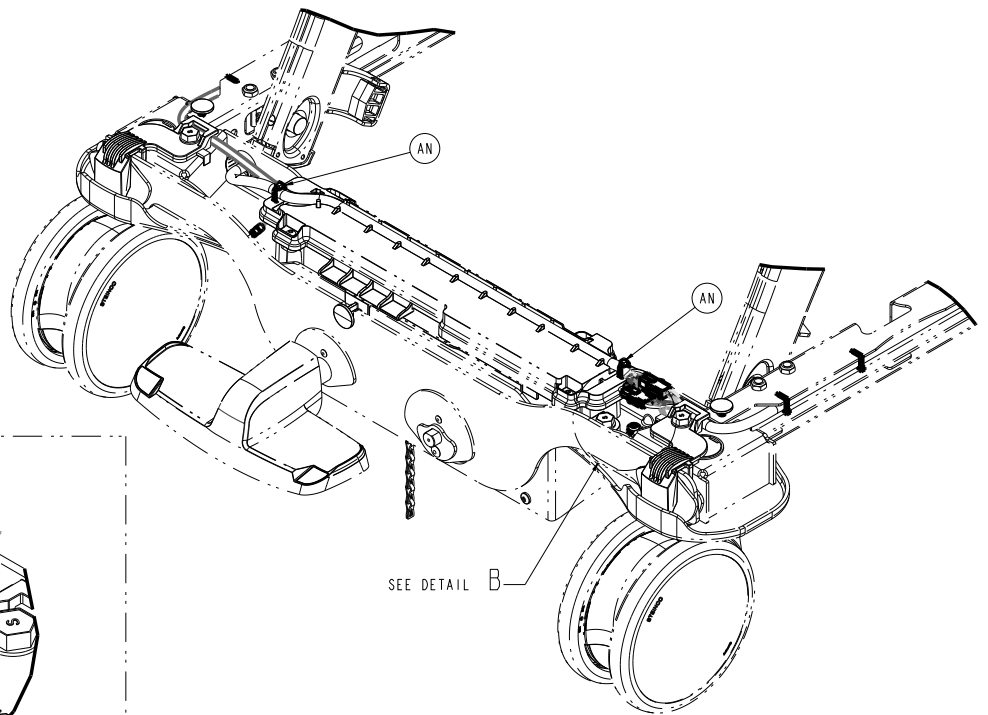
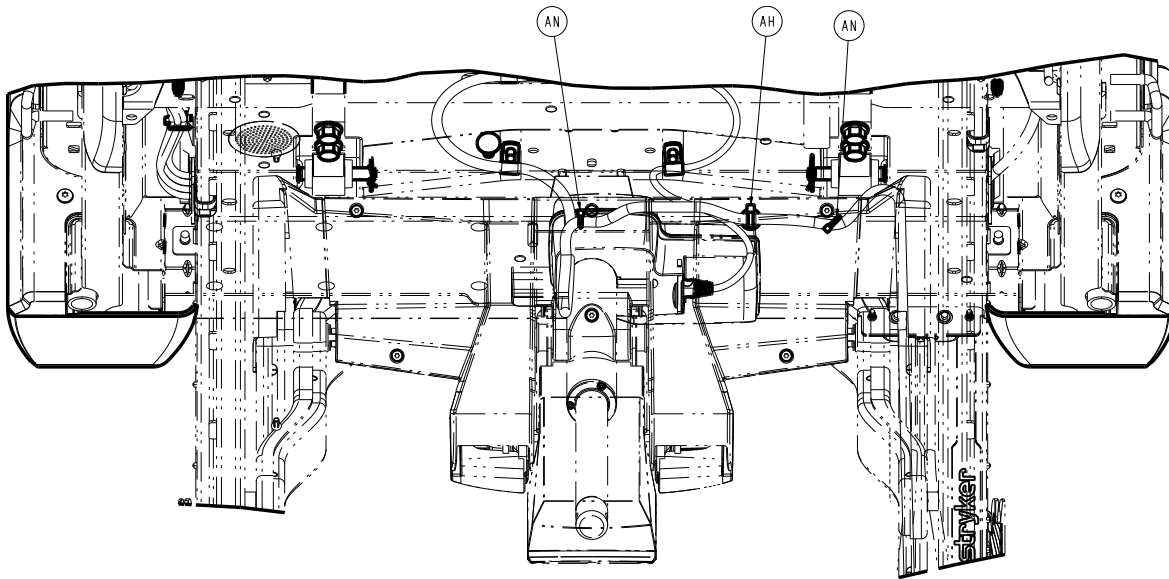
DETAIL E



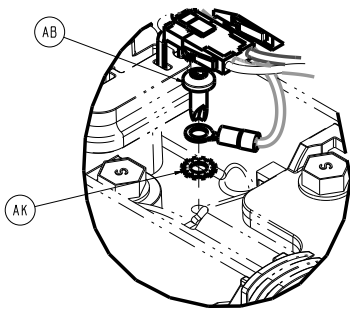


Torque item Y to 6.5 ± 1 ft-lb

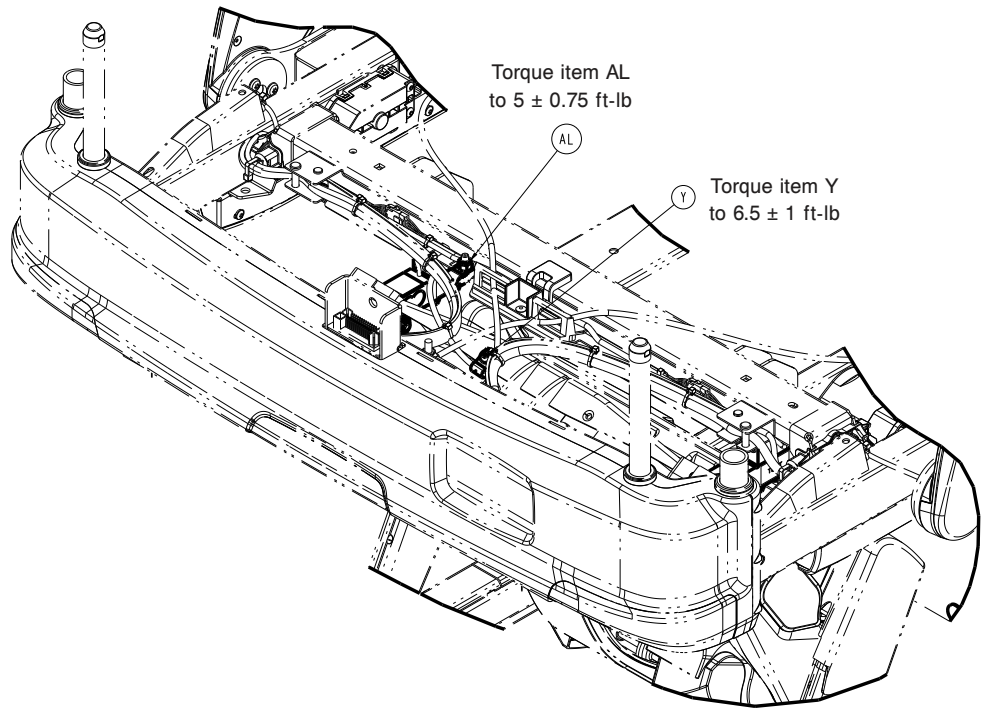
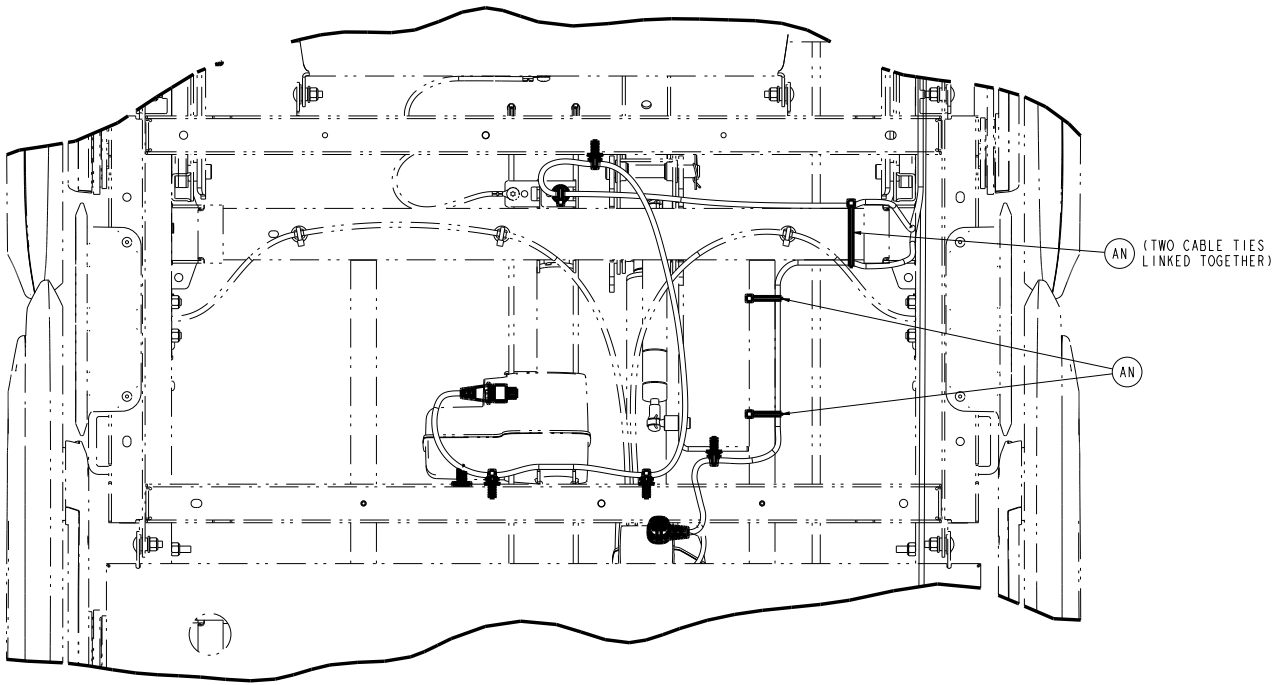


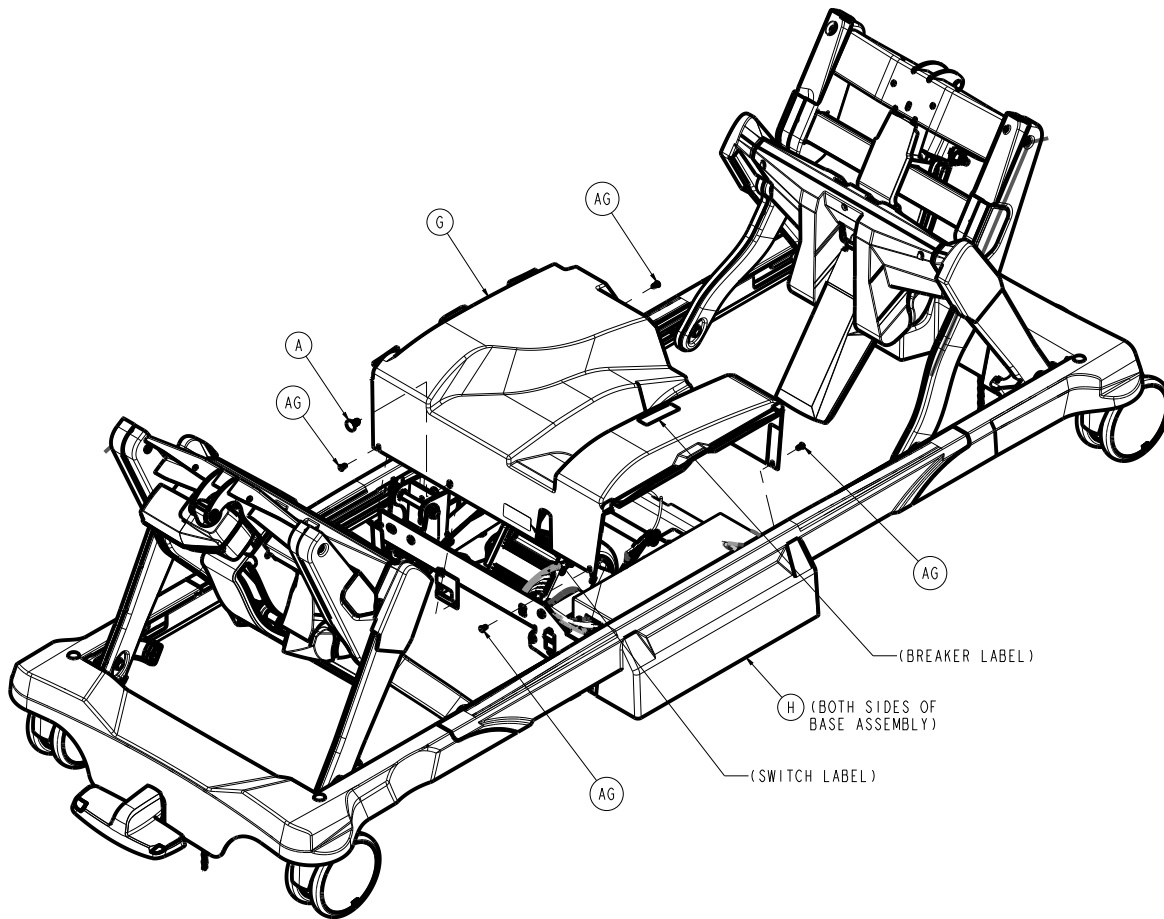


Torque item AB
to 5 ± 0.75 ft-lb



DETAIL B



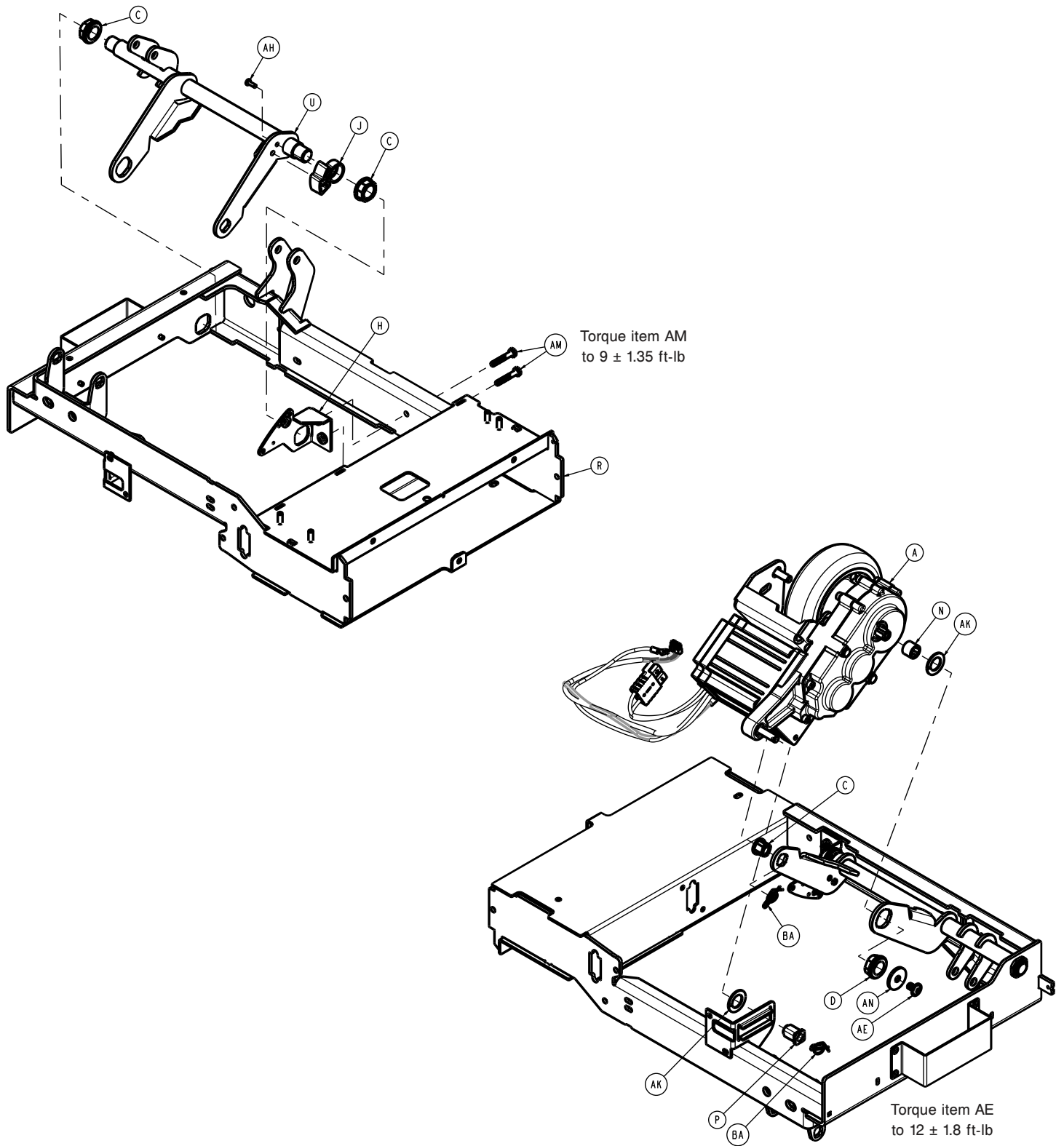


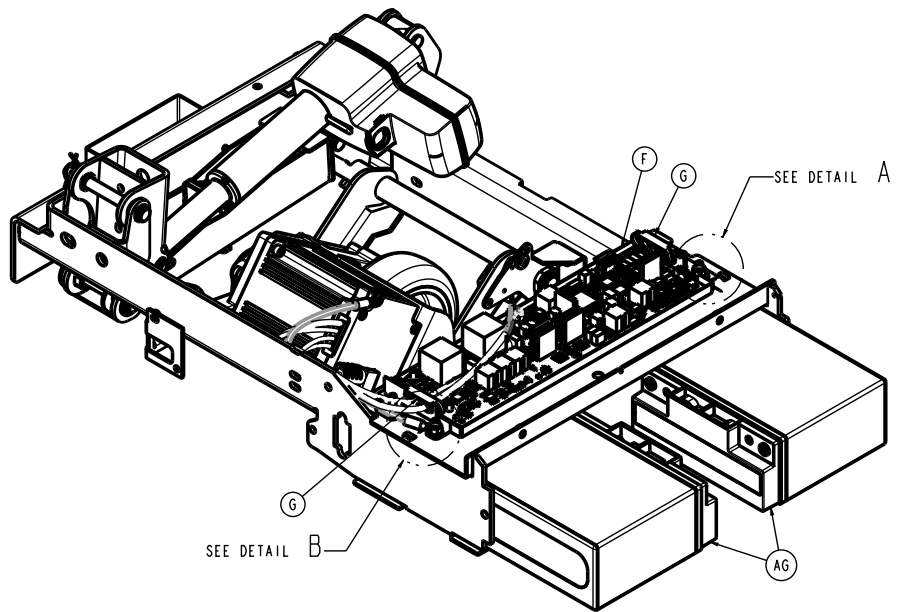
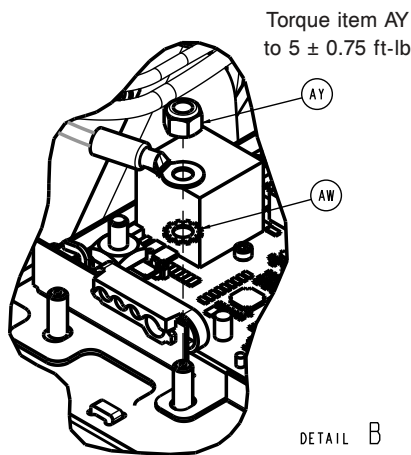
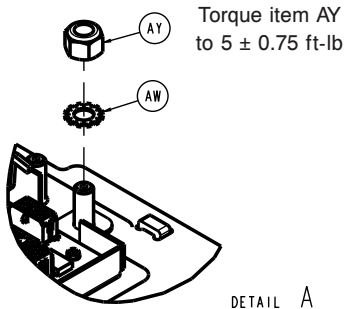
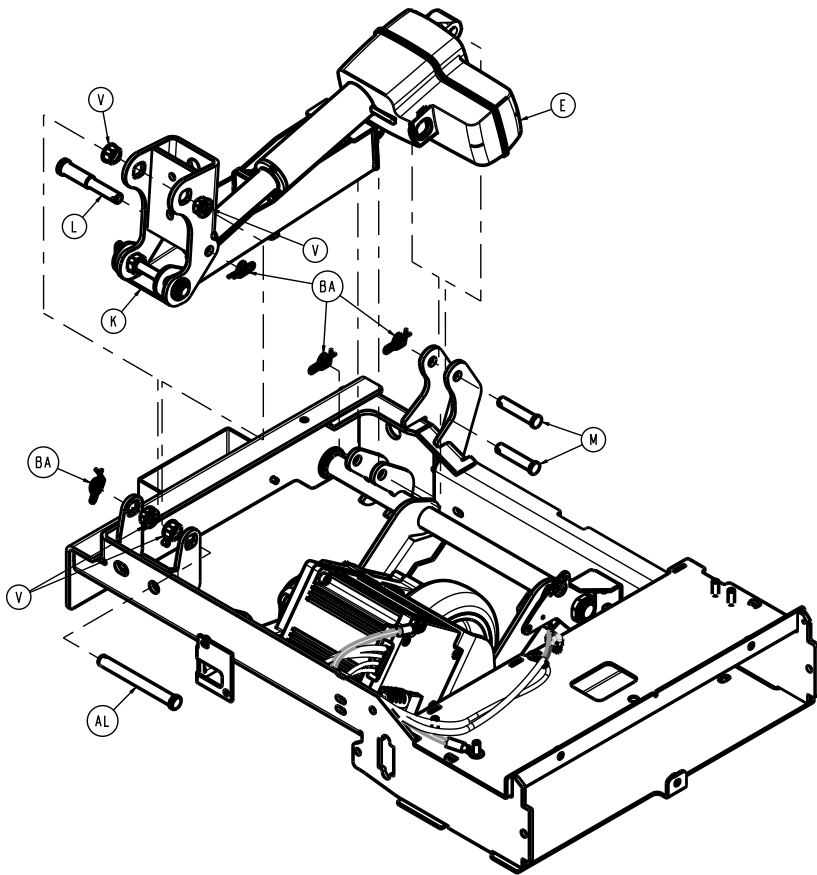
| Item | Number | Name | Quantity |
|------|--------------|---|----------|
| A | 300900010009 | Push-in tree clip | 1 |
| B | 300900010021 | Base standard caster | 1 |
| C | 300900020027 | Lift loadcell pin | 4 |
| D | 300900020870 | Lift actuator cable, head end | 1 |
| E | 300900020875 | Lift actuator cable, foot end | 1 |
| F | 300900030830 | Zoom control board to electric brake board cable assembly | 1 |
| G | 300900070031 | Zoom cover | 1 |
| H | 300900070033 | Zoom base rail cover | 2 |
| J | 300900070063 | Zoom washer plate | 1 |
| K | 300900070250 | Zoom drive assembly (page 167) | 1 |
| L | 300900070810 | Main control board to Zoom control cable assembly | 1 |
| M | 300900070811 | Main control cable to Zoom control board cable assembly | 1 |
| N | 300900100018 | Litter electronics box electric brake plug | 1 |
| P | 300900100260 | <i>Litter Zoom handle pivot assembly, patient right (page 174)</i> | 1 |
| R | 300900100270 | <i>Litter Zoom handle pivot assembly, patient left (page 176)</i> | 1 |
| T | 300900120875 | Fowler actuator cable | 1 |
| U | 300900140875 | Gatch actuator cable | 1 |
| V | 300900370014 | Zoom loadcell spacer block | 4 |
| W | 300900370865 | Zoom foot end loadcell cable assembly | 2 |

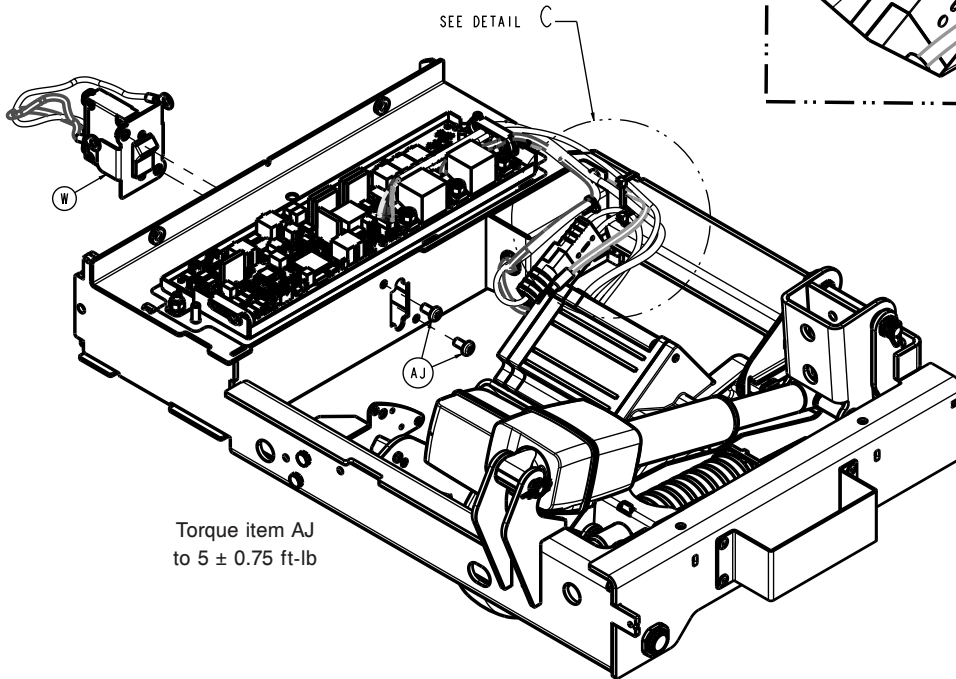
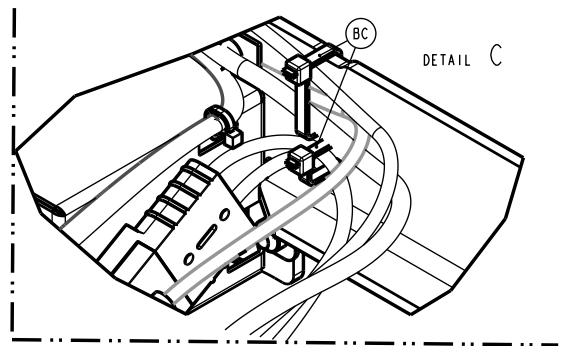
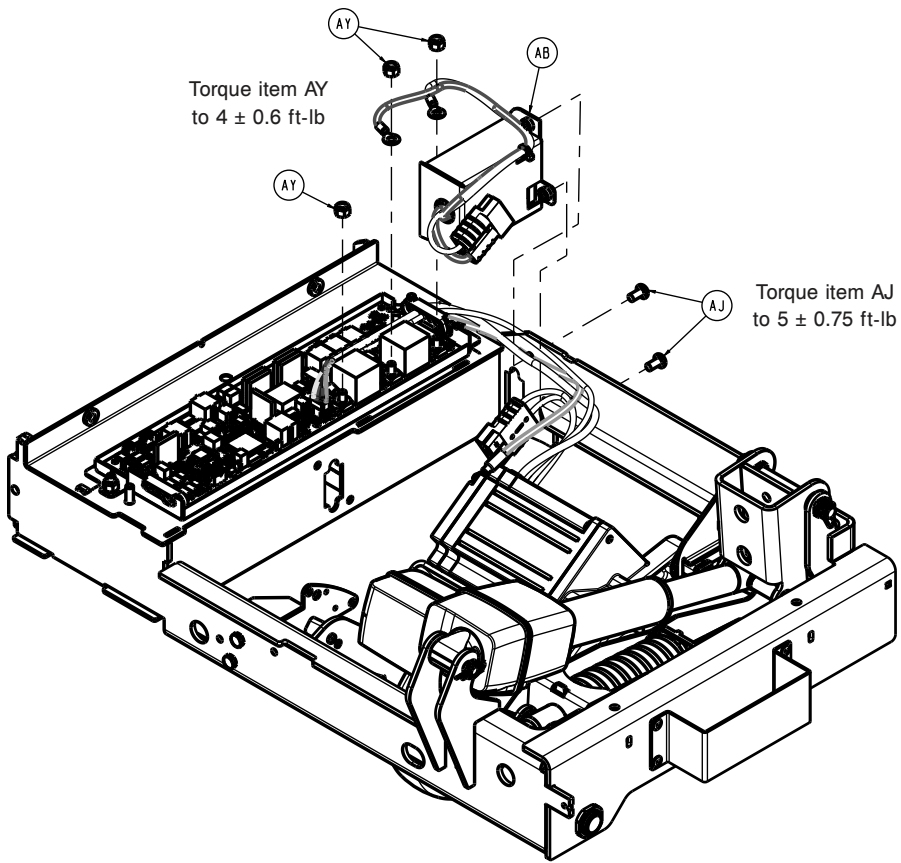
| Item | Number | Name | Quantity |
|------|--------------|-------------------------------|----------|
| Y | 700000336076 | Pan head thread rolling screw | 5 |
| AA | 700000576833 | Pan head machine screw | 6 |
| AB | 700000668696 | Pan head thread cutting screw | 2 |
| AC | 700000717660 | Hex flange screw | 8 |
| AD | 700000729740 | Hex head cap screw | 2 |
| AE | 700000729746 | Hex head cap screw | 1 |
| AF | 700000740630 | Extra heavy fender washer | 1 |
| AG | 700000800509 | Snap clip | 4 |
| AH | 700000816940 | Tree mount | 3 |
| AJ | 0011-002-000 | Light flat washer | 2 |
| AK | 0013-018-000 | External tooth lock washer | 2 |
| AL | 0016-028-000 | Nylock hex nut | 3 |
| AM | 0027-022-000 | Rue ring cotter | 4 |
| AN | 3000-300-113 | Cable tie | 28 |

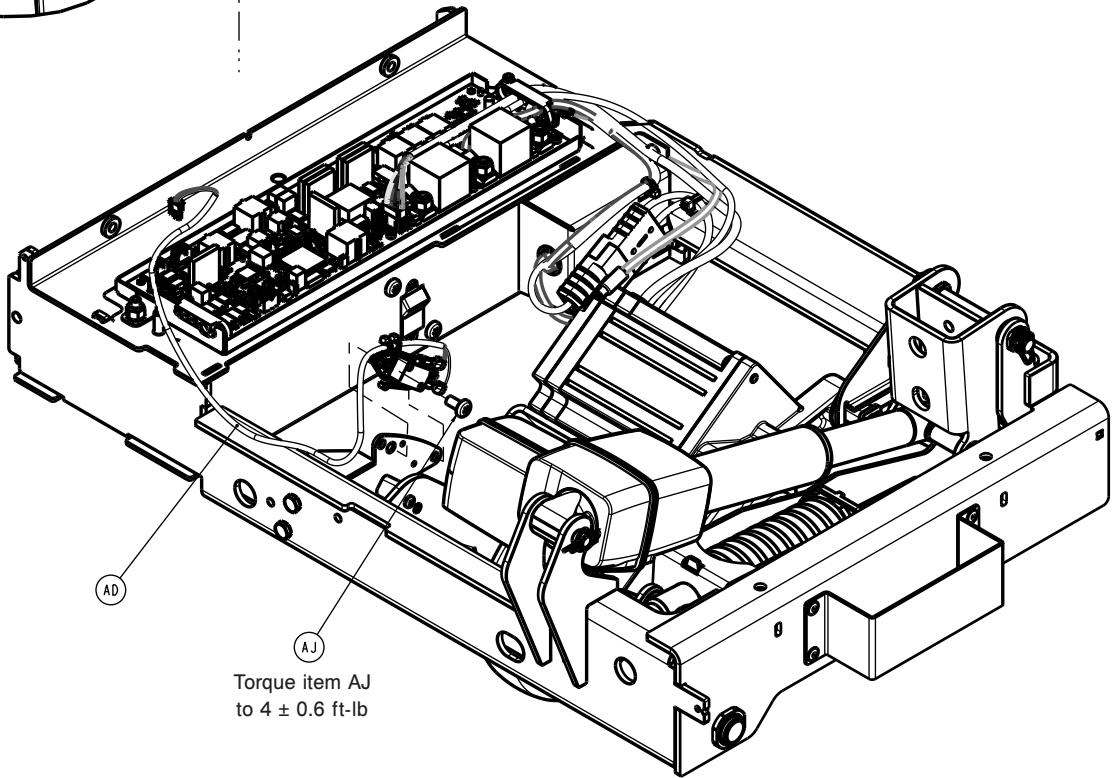
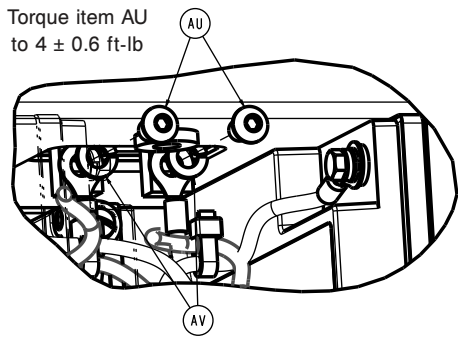
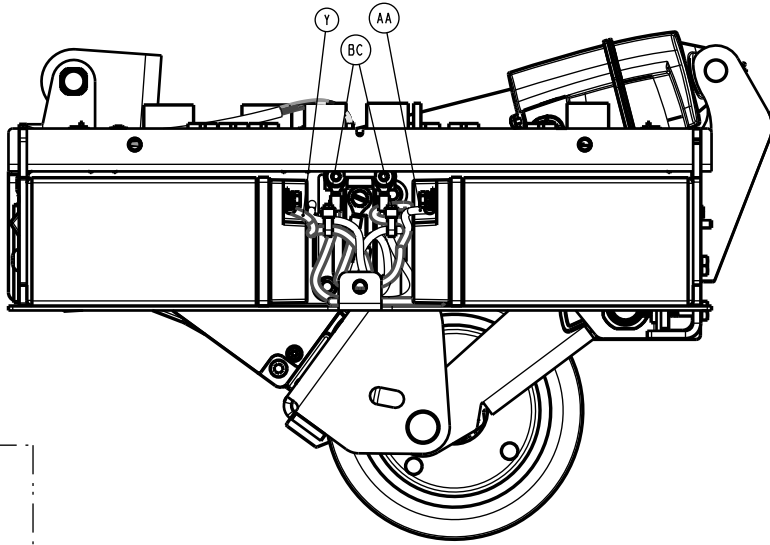
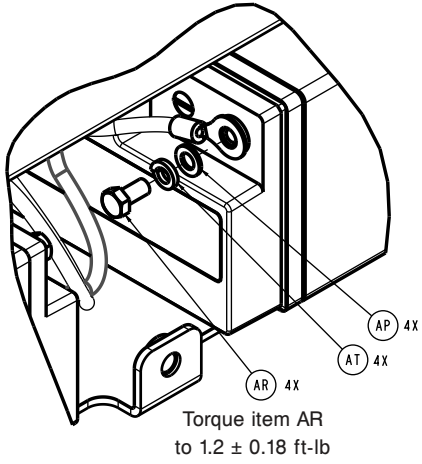
Zoom drive assembly

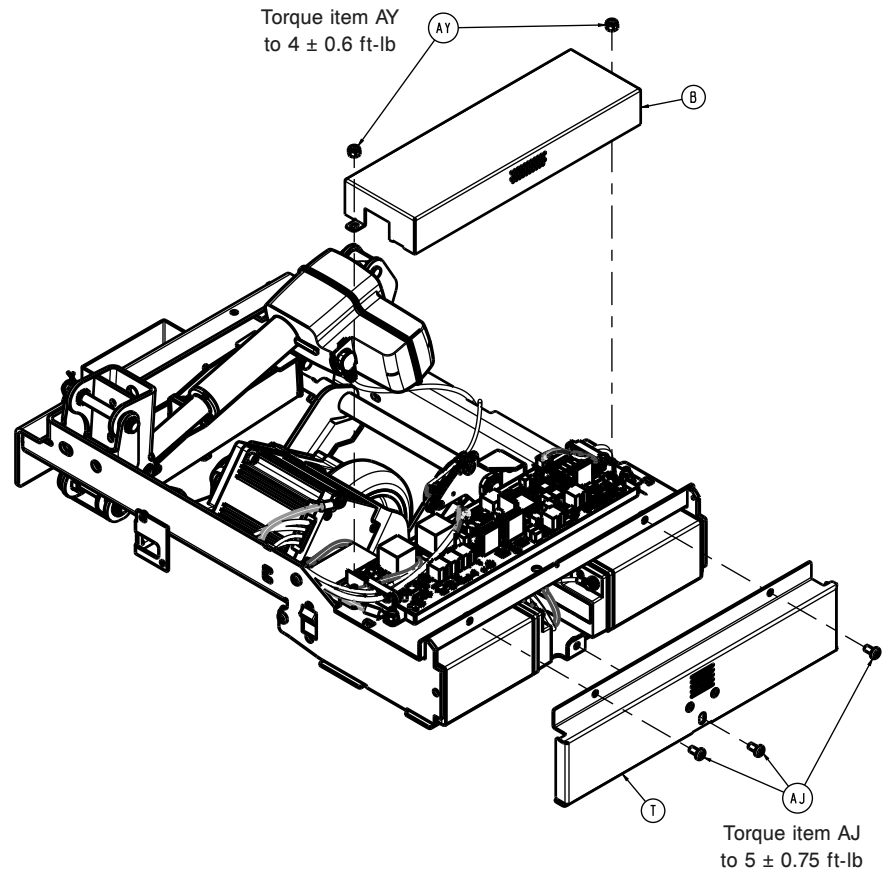
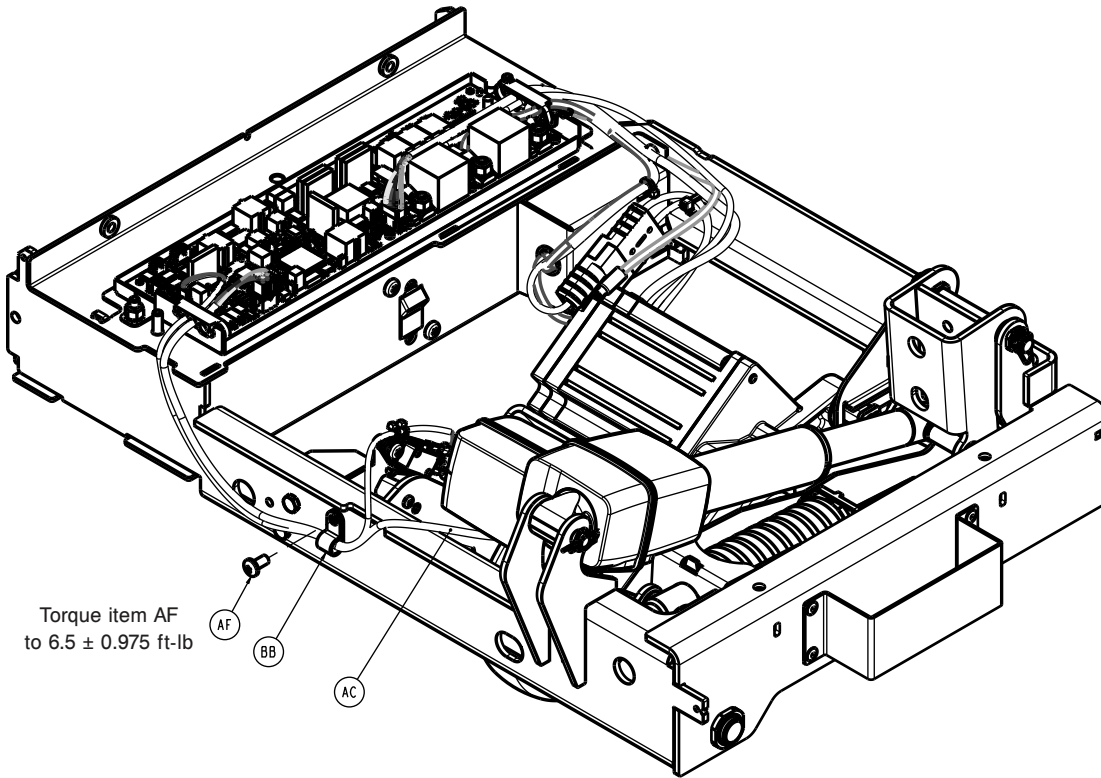
300900070250 Rev AD (Reference only)









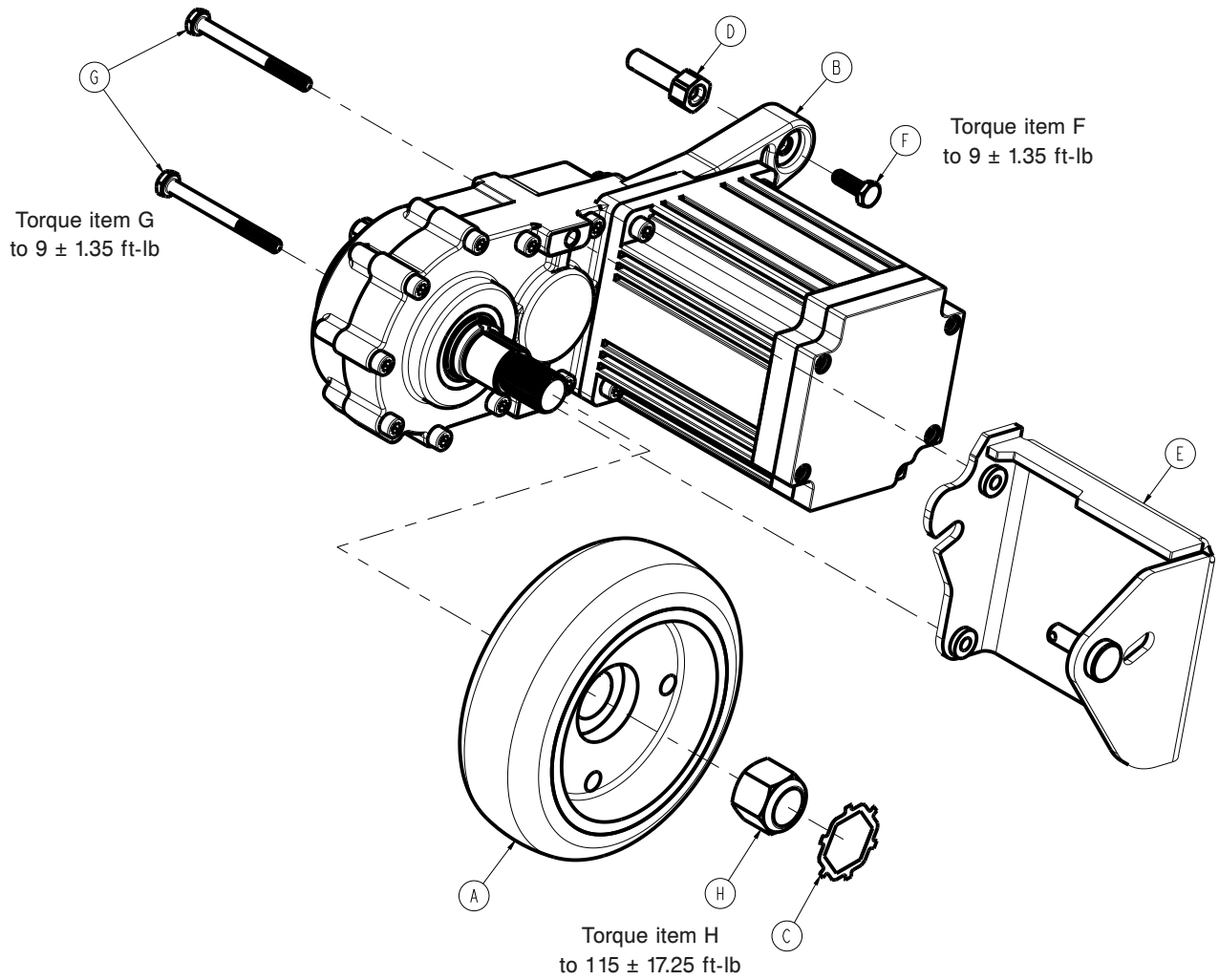


| Item | Number | Name | Quantity |
|------|--------------|--------------------------------------|----------|
| A | 300900070010 | Zoom motor/wheel assembly (page 173) | 1 |
| B | 300900070019 | Zoom board cover | 1 |
| C | 300900070025 | Zoom short bushing assembly | 3 |

| Item | Number | Name | Quantity |
|------|--------------|--|----------|
| D | 300900070030 | Zoom long bushing assembly | 1 |
| E | 300900070040 | Zoom actuator | 1 |
| F | 300900070050 | Zoom control board/heat sink assembly | 1 |
| G | 300900070058 | Zoom cable grommet | 2 |
| H | 300900070061 | Zoom crank mount switch bracket | 1 |
| J | 300900070067 | Zoom switch cam | 1 |
| K | 300900070080 | Zoom spring cartridge assembly | 1 |
| L | 300900070082 | Zoom actuator ram pin | 1 |
| M | 300900070084 | Zoom actuator base pin | 2 |
| N | 300900070086 | Zoom motor sleeve | 1 |
| P | 300900070087 | Zoom motor slider | 1 |
| R | 300900070100 | Zoom frame weldment | 1 |
| T | 300900070105 | Zoom battery cover assembly | 1 |
| U | 300900070130 | Zoom crank weldment | 1 |
| V | 300900070143 | Zoom back crank bushing | 4 |
| W | 300900070822 | Zoom battery breaker with cable assembly | 1 |
| Y | 300900070823 | Zoom (red) battery to Zoom board cable 1 assembly | 1 |
| AA | 300900070824 | Zoom (black) battery to Zoom board cable assembly | 1 |
| AB | 300900070832 | Zoom override switch with cable assembly | 1 |
| AC | 300900070842 | Zoom actuator cable | 1 |
| AD | 300900070852 | Zoom control board to Zoom partial retract switch cable assembly | 1 |
| AE | 700000244087 | Flanged button head cap screw | 1 |
| AF | 700000336076 | Pan head thread rolling screw | 1 |
| AG | 700000341246 | Zoom battery | 2 |
| AH | 700000492445 | Pan head thread forming screw | 1 |
| AJ | 700000576833 | Pan head machine screw | 8 |
| AK | 700000727943 | Thrust washer | 2 |
| AL | 700000727949 | Clevis pin | 1 |
| AM | 700000729708 | Hex head cap screw | 2 |
| AN | 700000740630 | Extra heavy fender washer | 1 |
| AP | 700000966973 | Washer | 4 |
| AR | 700000966980 | Hex head cap screw | 4 |
| AT | 700000966988 | Lock washer | 4 |
| AU | 0004-074-000 | Button head cap screw | 2 |
| AV | 0012-012-000 | Helical lock washer | 2 |
| AW | 0013-010-000 | External tooth lock washer | 2 |
| AY | 0016-028-000 | Nylock hex nut | 7 |
| BA | 0027-034-000 | Rue ring cotter | 6 |
| BB | 0034-020-000 | Cord clamp | 1 |
| BC | 3000-300-113 | Cable tie | 4 |

Zoom motor/wheel assembly

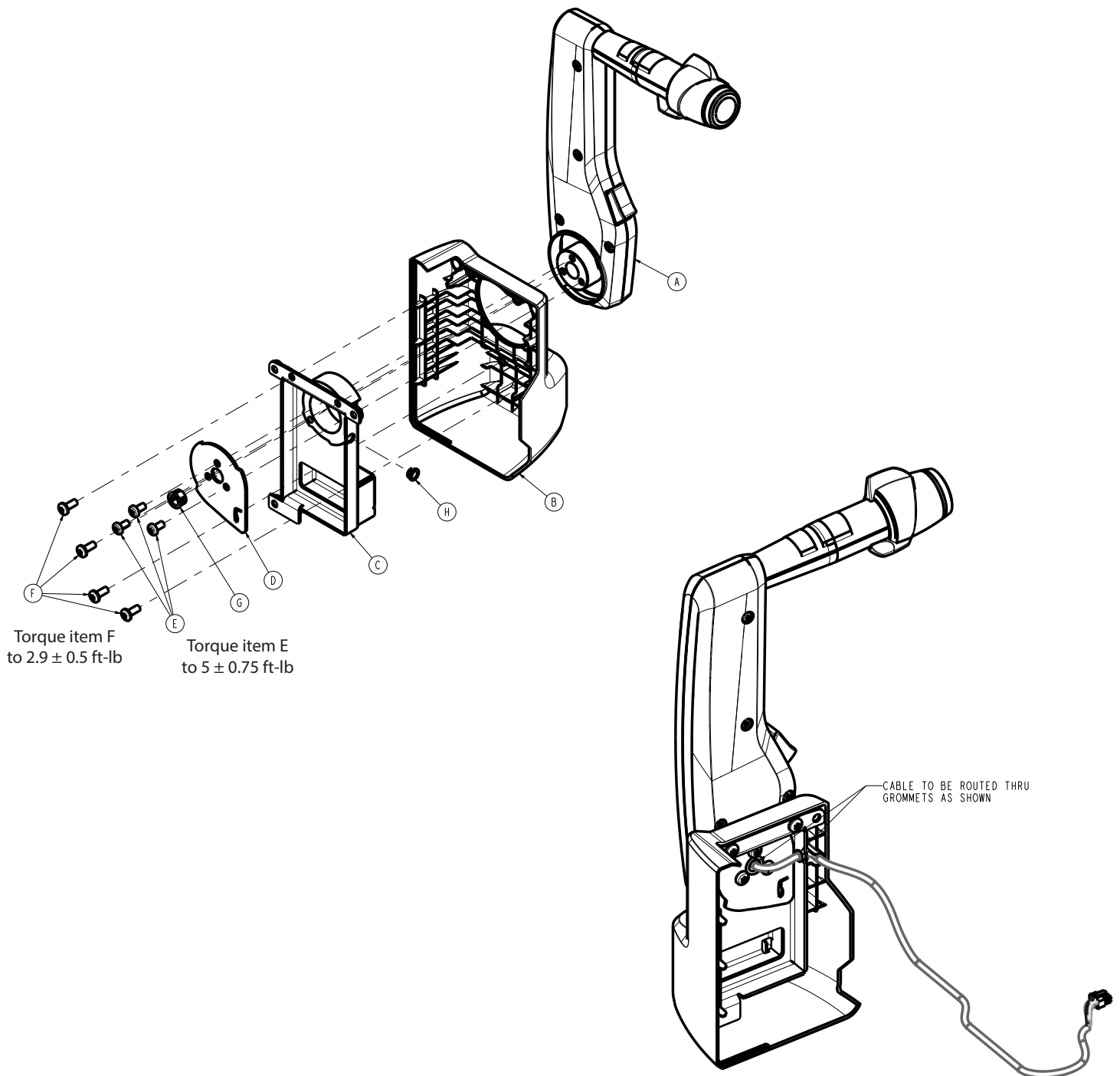
300900070010 Rev AB (Reference only)



| Item | Number | Name | Quantity |
|------|--------------|-----------------------------|----------|
| A | 300900070011 | Zoom wheel | 1 |
| B | 300900070015 | Zoom drive motor | 1 |
| C | 300900070018 | Zoom nut retainer | 1 |
| D | 300900070089 | Zoom motor slider pin | 1 |
| E | 300900070160 | Zoom motor bracket weldment | 1 |
| F | 700000729716 | Hex head cap screw | 1 |
| G | 700000729740 | Hex head cap screw | 2 |
| H | 700000733484 | Nylock hex nut | 1 |

Litter Zoom handle pivot assembly, patient right

300900100260 Rev AB (Reference only)

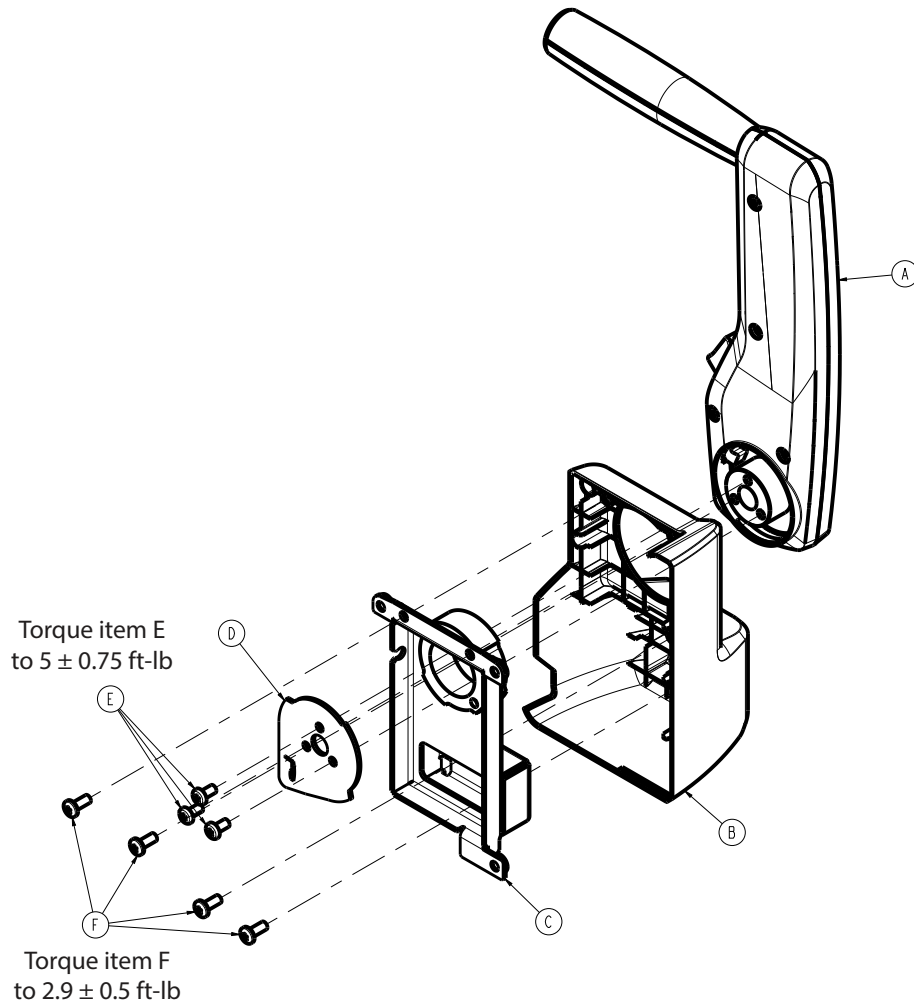


| Item | Number | Name | Quantity |
|------|--------------|--|----------|
| A | 300900070200 | Zoom handle/throttle assembly, patient right | 1 |
| B | 300900100156 | Head end litter Zoom bumper, patient right | 1 |
| C | 300900100255 | Litter Zoom handle pivot weldment, patient right | 1 |
| D | 300900100256 | Litter Zoom handle pivot plate | 1 |

| Item | Number | Name | Quantity |
|-------------|---------------|-------------------------------|-----------------|
| E | 700000576833 | Pan head machine screw | 3 |
| F | 700001258237 | Pan head thread forming screw | 4 |
| G | 0030-036-000 | Bushing | 1 |
| H | 0052-822-000 | Snap-in nyliner | 1 |

Litter Zoom handle pivot assembly, patient left

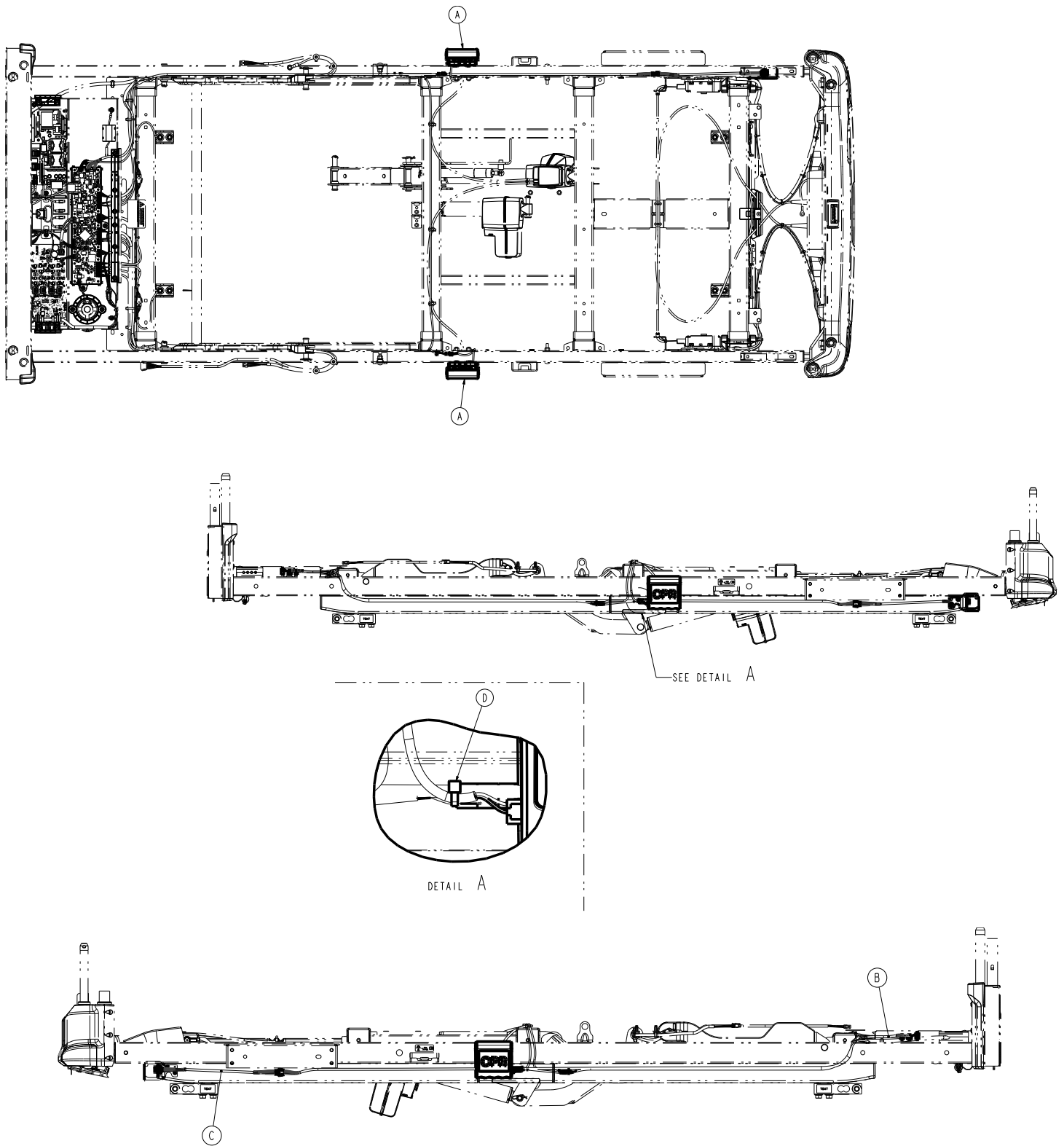
300900100270 Rev AB (Reference only)



| Item | Number | Name | Quantity |
|------|--------------|---|----------|
| A | 300900070300 | Zoom handle/throttle assembly, patient left | 1 |
| B | 300900100157 | Head end litter Zoom bumper, patient left | 1 |
| C | 300900100265 | Litter Zoom handle pivot weldment, patient left | 1 |
| D | 300900100256 | Litter Zoom handle pivot plate | 1 |
| E | 700000576833 | Pan head machine screw | 3 |
| F | 700001258237 | Pan head thread forming screw | 4 |

Powered mattress integration assembly

300900560200 Rev AB (Reference only)

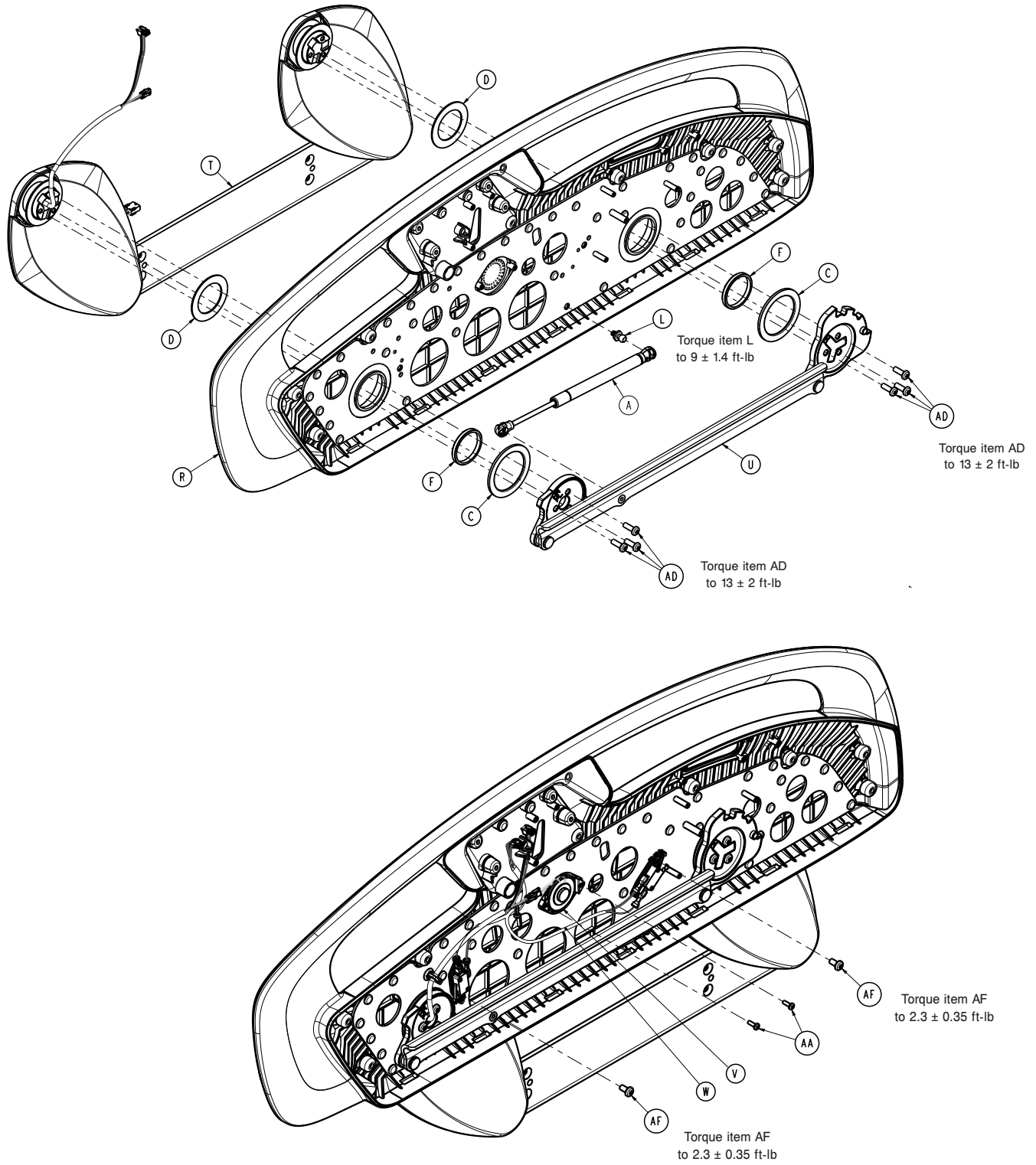


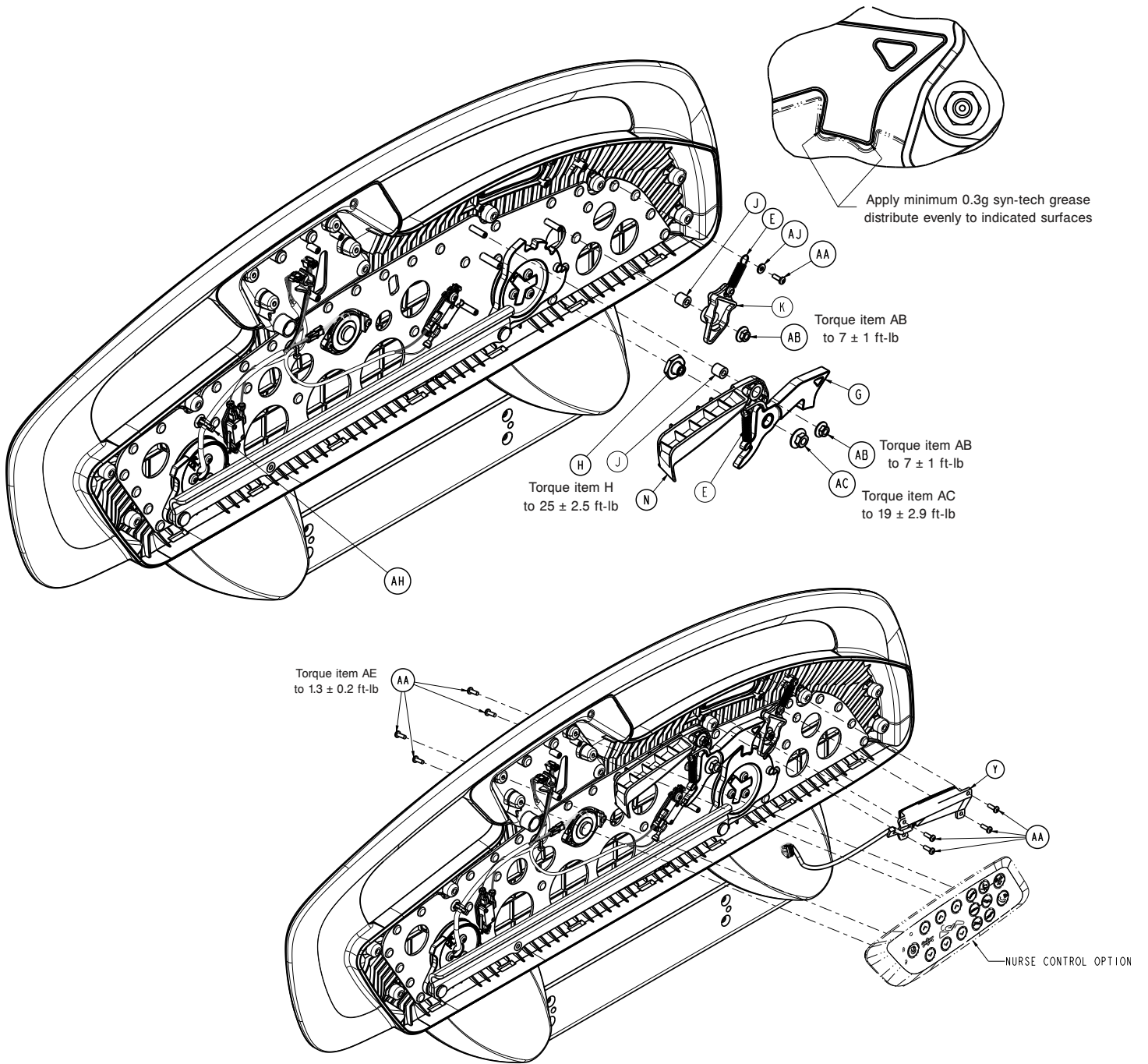
| Item | Number | Name | Quantity |
|-------------|---------------|--|-----------------|
| A | 300900100325 | Litter CPR release with switch assembly | 2 |
| B | 300900560884 | Main controller board to Isolibrium connector cable assembly | 1 |
| C | 300900560885 | Main controller cable to Isolibrium connector cable assembly | 1 |
| D | 3000-300-114 | Cable tie | 1 |

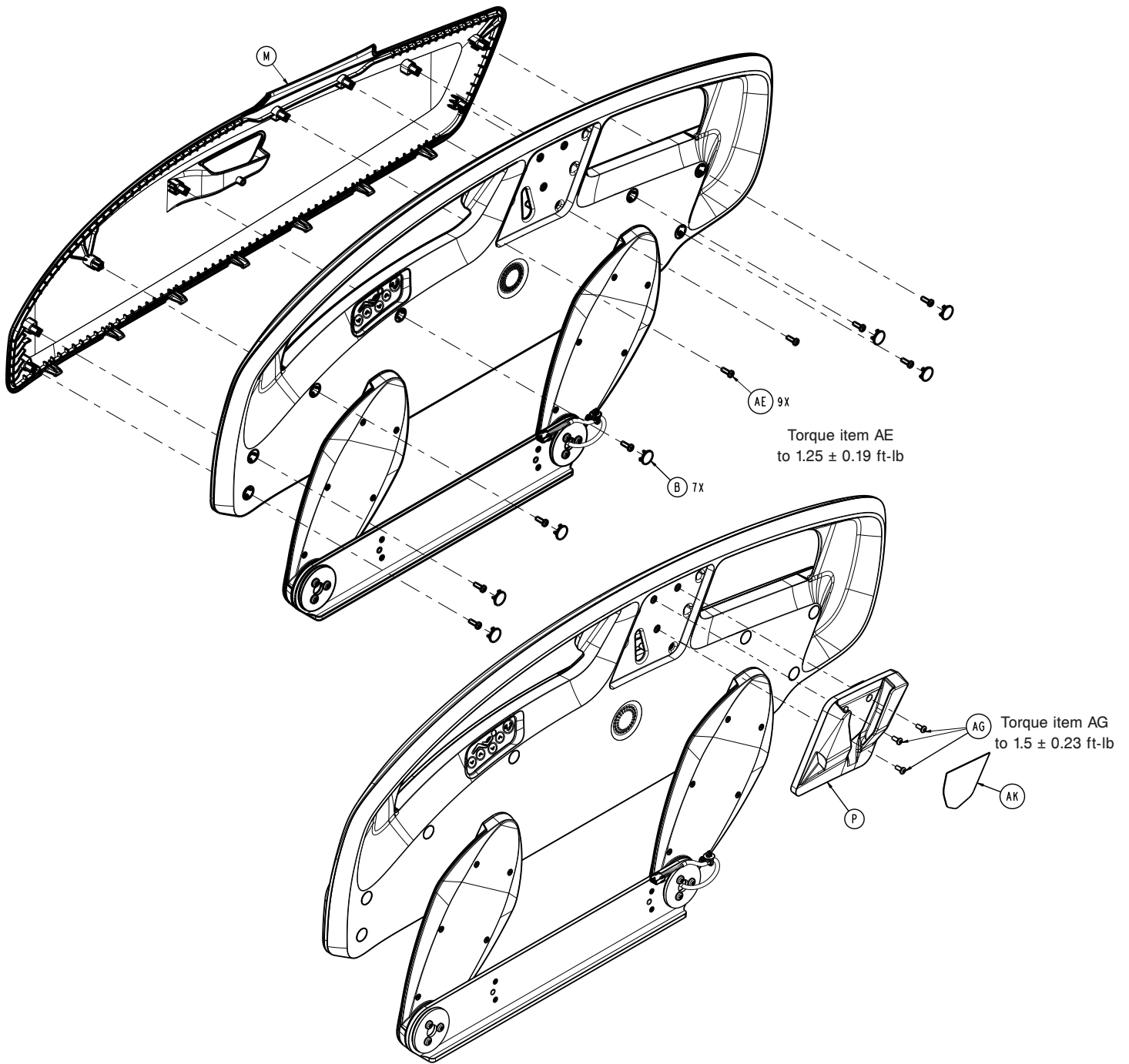
Siderail assembly, head end

300900110100 Rev AC (right) (Reference only)

300900110200 Rev AC (left) (Reference only)







Siderail assembly, head end – 300900110100 Rev AC (Reference only)

| Item | Number | Name | Quantity |
|------|--------------|---------------------------------|----------|
| A | 300900110006 | Gas spring, head end | 1 |
| B | 300900110008 | Screw cover | 7 |
| C | 300900110011 | Thrust washer, large | 2 |
| D | 300900110012 | Thrust washer, small | 2 |
| E | 300900110013 | Release handle extension spring | 2 |
| F | 300900110014 | Pivot bearing | 2 |
| G | 300900110015 | Latch pawl assembly | 1 |
| H | 300900110017 | Latch pivot | 1 |
| J | 300900110019 | Pivot sleeve | 2 |

Siderail assembly, head end – 300900110100 Rev AC (Reference only)

| Item | Number | Name | Quantity |
|------|--------------|--|----------|
| K | 300900110031 | Bypass lever | 1 |
| L | 300900110133 | Back plate ball stud | 1 |
| M | 300900110101 | Cover, head end, right | 1 |
| N | 300900110117 | Release handle, head end, right/foot end, left | 1 |
| P | 300900110119 | Patient belongings, head end, right | 1 |
| R | 300900110120 | Hoop/back plate assembly, head end, right | 1 |
| T | 300900110125 | <i>Arm/carrier assembly, head end (page 184)</i> | 1 |
| U | 300900110130 | Timing link assembly, head end, right | 1 |
| V | 300900110812 | Speaker assembly | 1 |
| W | 300900110814 | Siderail switch assembly, head end, right | 1 |
| Y | 300900110955 | Siderail patient control assembly, right | 1 |
| AA | 700000492445 | Pan head thread forming screw | 11 |
| AB | 700000494203 | Hex large flange lock nut | 2 |
| AC | 700000494204 | Hex super flange lock nut | 1 |
| AD | 700000533297 | Pan head machine screw | 6 |
| AE | 700000550115 | Pan head thread forming screw | 9 |
| AF | 700000576833 | Pan head machine screw | 2 |
| AG | 700000815805 | Pan head machine screw | 3 |
| AH | 700000827137 | Tree mount | 1 |
| AJ | 0011-016-000 | Plain washer | 1 |
| AK | 300900110003 | Label, patient belongings, right | 1 |

Siderail assembly, head end – 300900110200 Rev AC (Reference only)

| Item | Number | Name | Quantity |
|------|--------------|--|----------|
| A | 300900110006 | Gas spring, head end | 1 |
| B | 300900110008 | Screw cover | 7 |
| C | 300900110011 | Thrust washer, large | 2 |
| D | 300900110012 | Thrust washer, small | 2 |
| E | 300900110013 | Release handle extension spring | 2 |
| F | 300900110014 | Pivot bearing | 2 |
| G | 300900110015 | Latch pawl assembly | 1 |
| H | 300900110017 | Latch pivot | 1 |
| J | 300900110019 | Pivot sleeve | 2 |
| K | 300900110031 | Bypass lever | 1 |
| L | 300900110133 | Back plate ball stud | 1 |
| M | 300900110201 | Cover, head end, left | 1 |
| N | 300900110217 | Release handle, head end, left/foot end, right | 1 |
| P | 300900110220 | Hoop/back plate assembly, head end, left | 1 |
| R | 300900110225 | <i>Arm/carrier assembly, head end (page 184)</i> | 1 |
| T | 300900110230 | Timing link assembly, head end, left | 1 |
| U | 300900110812 | Speaker assembly | 1 |

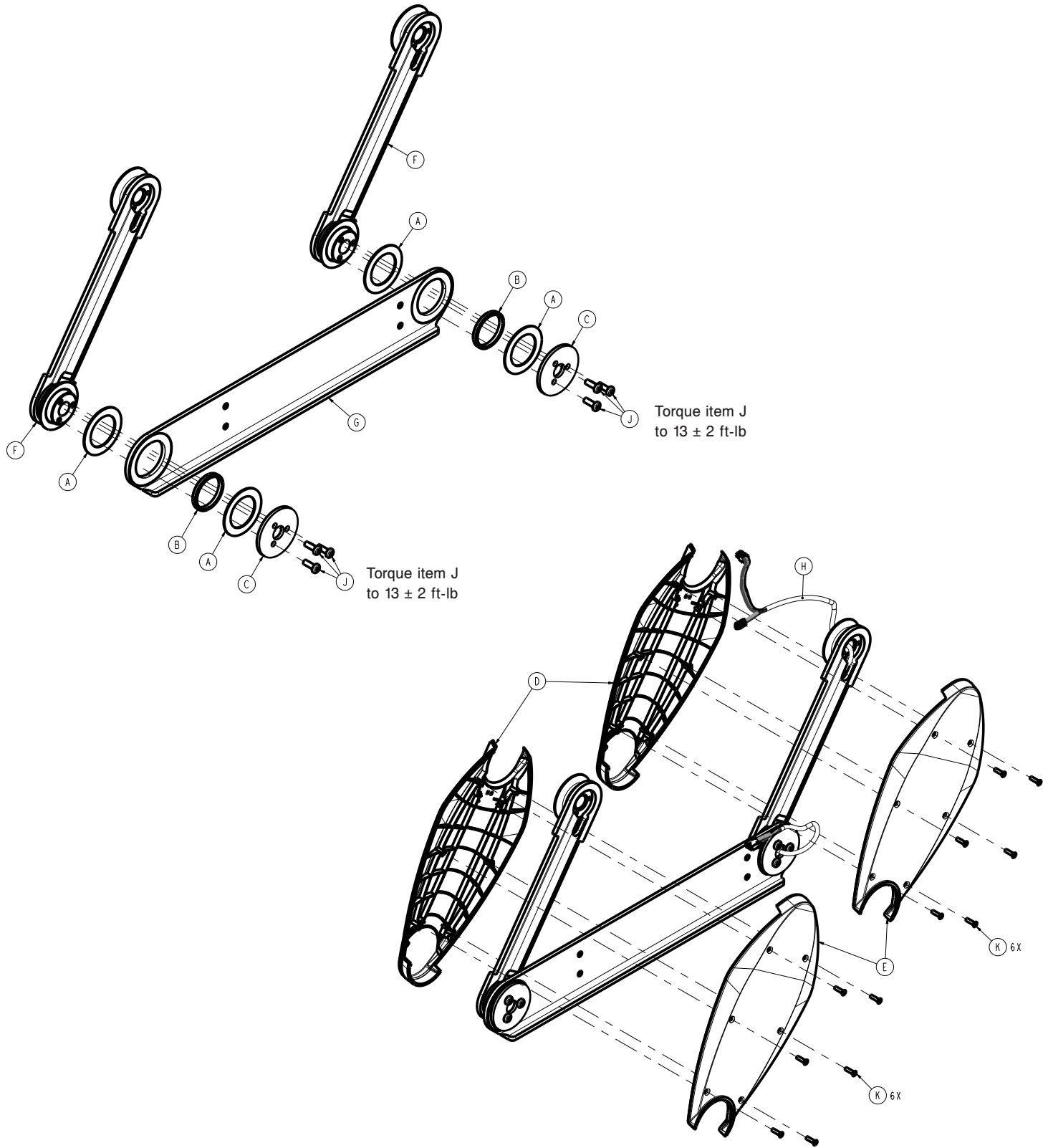
Siderail assembly, head end – 300900110200 Rev AC (Reference only)

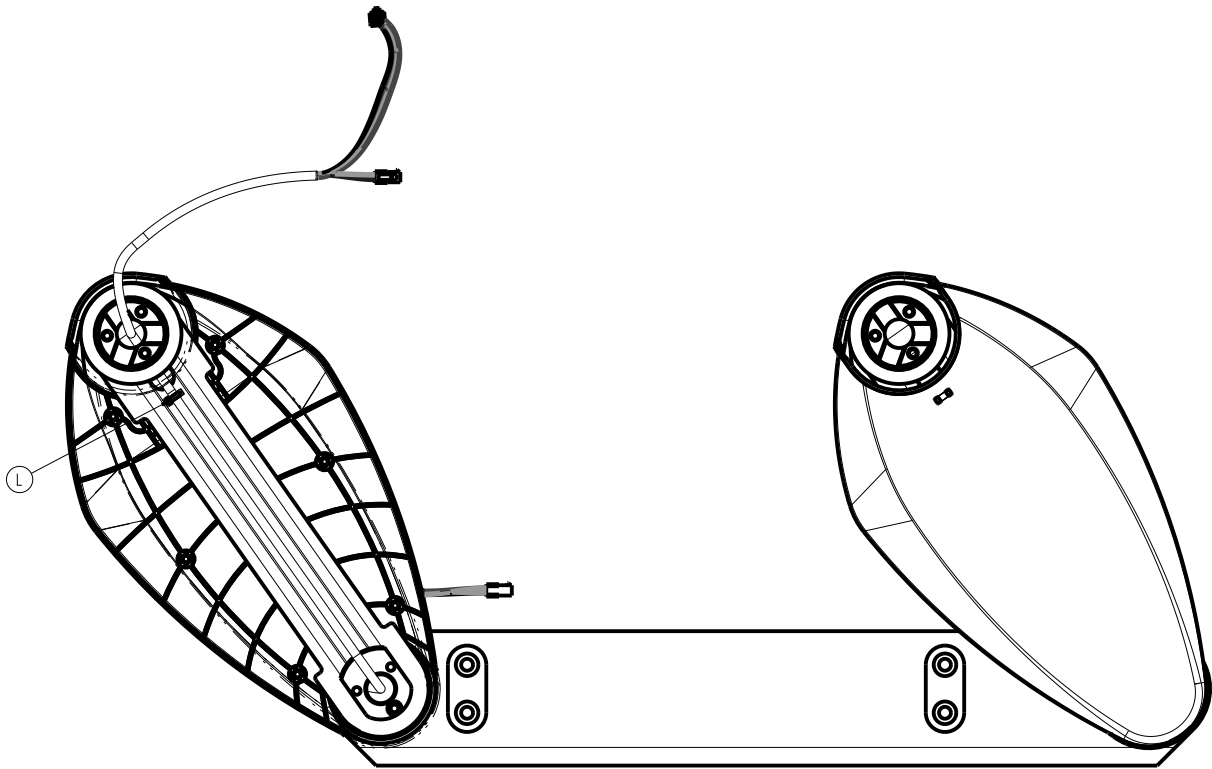
| Item | Number | Name | Quantity |
|-------------|---------------|--|-----------------|
| V | 300900110824 | Siderail switch assembly, head end, left | 1 |
| W | 300900110950 | Siderail patient control assembly, left | 1 |
| Y | 700000492445 | Pan head thread forming screw | 11 |
| AA | 700000494203 | Hex large flange lock nut | 2 |
| AB | 700000494204 | Hex super flange lock nut | 1 |
| AC | 700000533297 | Pan head machine screw | 6 |
| AD | 700000550115 | Pan head thread forming screw | 9 |
| AE | 700000576833 | Pan head machine screw | 2 |
| AF | 700000815805 | Pan head machine screw | 3 |
| AG | 700000827137 | Tree mount | 1 |
| AH | 0011-016-000 | Plain washer | 1 |

Arm/carrier assembly, head end

300900110125 Rev AB (right) (Reference only)

300900110225 Rev AB (left) (Reference only)





Arm/carrier assembly, head end - 300900110125 Rev AB (Reference only)

| Item | Number | Name | Quantity |
|------|--------------|--|----------|
| A | 300900110012 | Thrust washer, small | 4 |
| B | 300900110014 | Pivot bearing | 2 |
| C | 300900110018 | Lower pivot plate | 2 |
| D | 300900110021 | Arm cover, outer | 2 |
| E | 300900110022 | Arm cover, inner | 2 |
| F | 300900110025 | Arm weldment | 2 |
| G | 300900110126 | Head end carrier, right | 1 |
| H | 300900110811 | Cable assembly | 1 |
| J | 700000533297 | Pan head machine screw | 6 |
| K | 700000590652 | Flat countersunk head thread forming screw | 12 |
| L | 3000-300-114 | Cable tie | 1 |

Arm/carrier assembly, head end - 300900110225 Rev AB (Reference only)

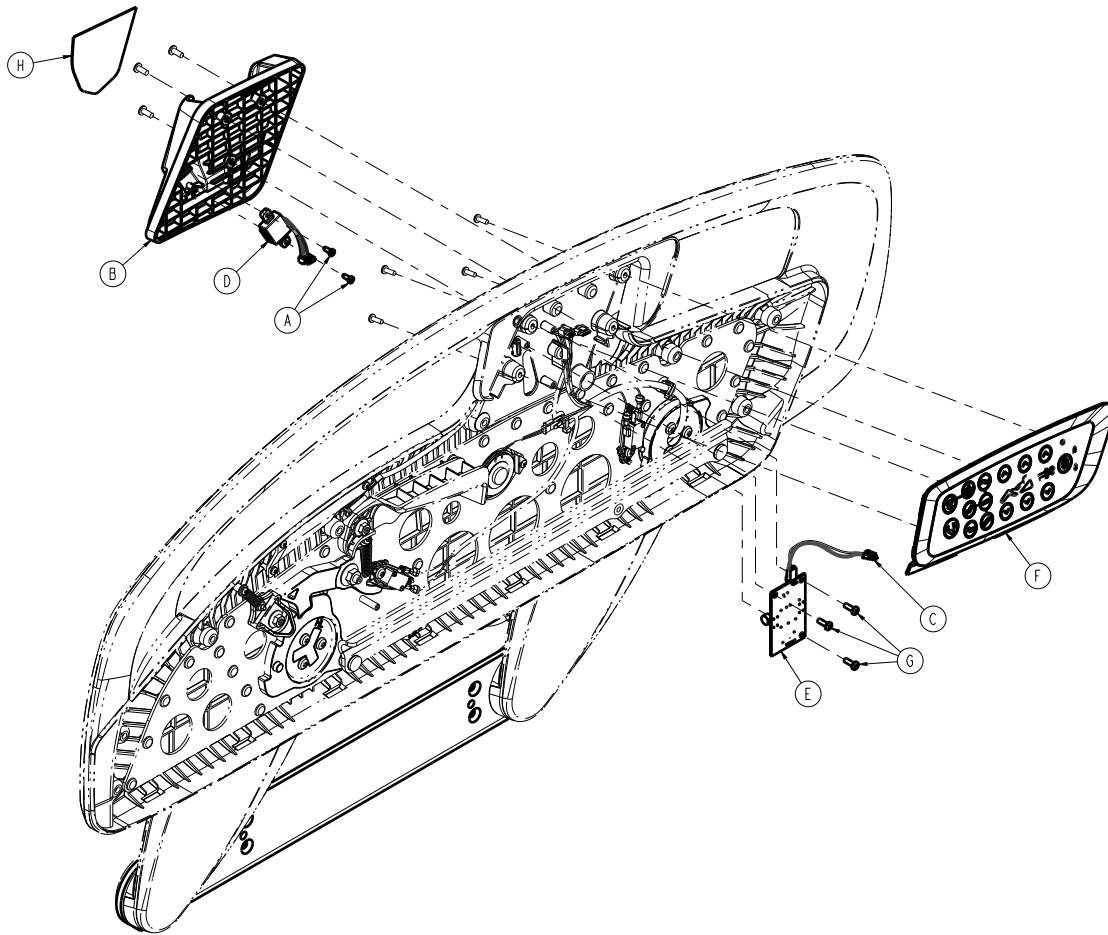
| Item | Number | Name | Quantity |
|------|--------------|------------------------|----------|
| A | 300900110012 | Thrust washer, small | 4 |
| B | 300900110014 | Pivot bearing | 2 |
| C | 300900110018 | Lower pivot plate | 2 |
| D | 300900110021 | Arm cover, outer | 2 |
| E | 300900110022 | Arm cover, inner | 2 |
| F | 300900110025 | Arm weldment | 2 |
| G | 300900110226 | Head end carrier, left | 1 |
| H | 300900110811 | Cable assembly | 1 |
| J | 700000533297 | Pan head machine screw | 6 |

Arm/carrier assembly, head end - 300900110225 Rev AB (Reference only)

| Item | Number | Name | Quantity |
|-------------|---------------|--|-----------------|
| K | 700000590652 | Flat countersunk head thread forming screw | 12 |
| L | 3000-300-114 | Cable tie | 1 |

Siderail assembly, head end, left, advanced

300900110609 Rev AC (Reference only)

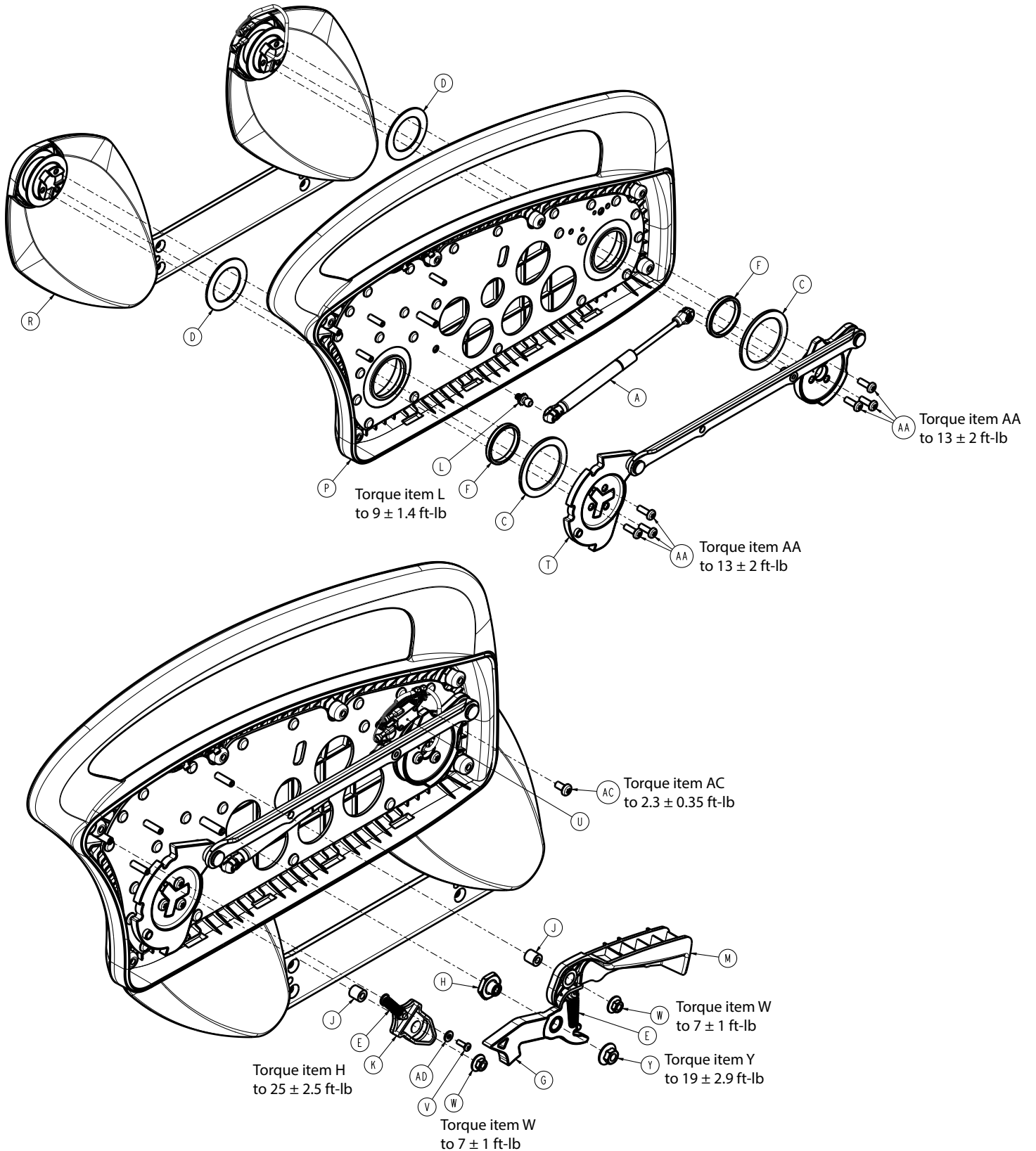


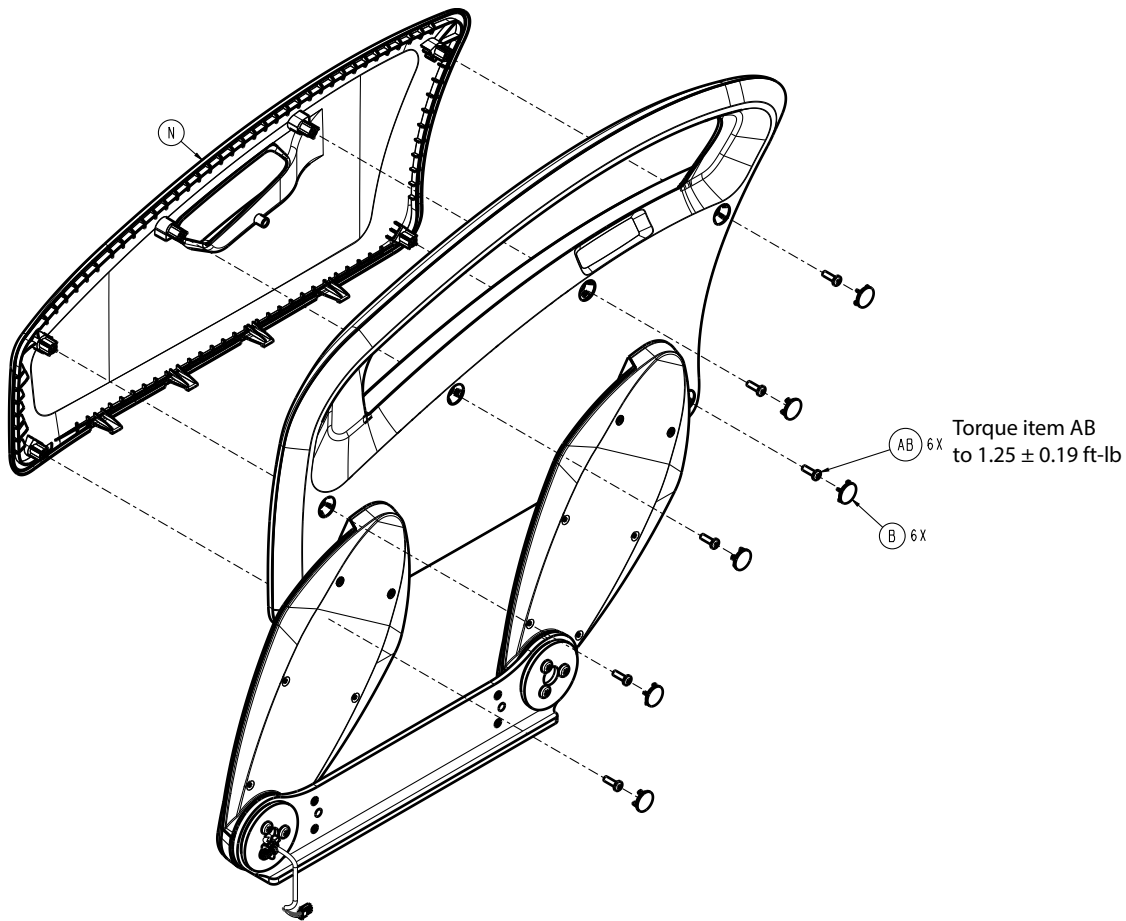
| Item | Number | Name | Quantity |
|------|--------------|------------------------------------|----------|
| A | 5900340009 | Pan screw | 2 |
| B | 300900110209 | Patient belongings with USB | 1 |
| C | 300900110813 | Cable assembly | 1 |
| D | 300900110815 | Cable assembly | 1 |
| E | 300900110900 | USB charger board | 1 |
| F | 300900110970 | Advanced operator control assembly | 1 |
| G | 700000492445 | Pan head thread forming screw | 3 |
| H | 300900110004 | Label, patient belongings with USB | 1 |

Siderail assembly, foot end

300901110300 Rev AA (right) (Reference only)

300901110400 Rev AA (left) (Reference only)





Siderail assembly, foot end - 300901110300 Rev AA (Reference only)

| Item | Number | Name | Quantity |
|------|--------------|---|----------|
| A | 300900110007 | Gas spring, foot | 1 |
| B | 300900110008 | Screw cover | 6 |
| C | 300900110011 | Thrust washer, large | 2 |
| D | 300900110012 | Thrust washer, small | 2 |
| E | 300900110013 | Release handle extension spring | 2 |
| F | 300900110014 | Pivot bearing | 2 |
| G | 300900110015 | Latch pawl assembly | 1 |
| H | 300900110017 | Latch pivot | 1 |
| J | 300900110019 | Pivot sleeve | 2 |
| K | 300900110031 | Bypass lever | 1 |
| L | 300900110133 | Back plate ball stud | 1 |
| M | 300900110217 | Release handle, head left/foot right | 1 |
| N | 300900110301 | Cover, foot right | 1 |
| P | 300900110320 | Hoop/back plate assembly, foot right | 1 |
| R | 300901110325 | Arm/carrier assembly, foot end (page 191) | 1 |
| T | 300900110330 | Timing link assembly, foot right | 1 |
| U | 300900110835 | Switch assembly, foot right | 1 |
| V | 700000492445 | Pan head thread forming screw | 1 |
| W | 700000494203 | Hex large flange lock nut | 2 |
| Y | 700000494204 | Hex super flange lock nut | 1 |

Siderail assembly, foot end - 300901110300 Rev AA (Reference only)

| Item | Number | Name | Quantity |
|------|--------------|-------------------------------|----------|
| AA | 700000533297 | Pan head machine screw | 6 |
| AB | 700000550115 | Pan head thread forming screw | 6 |
| AC | 700000576833 | Pan head machine screw | 1 |
| AD | 0011-016-000 | Plain washer | 1 |

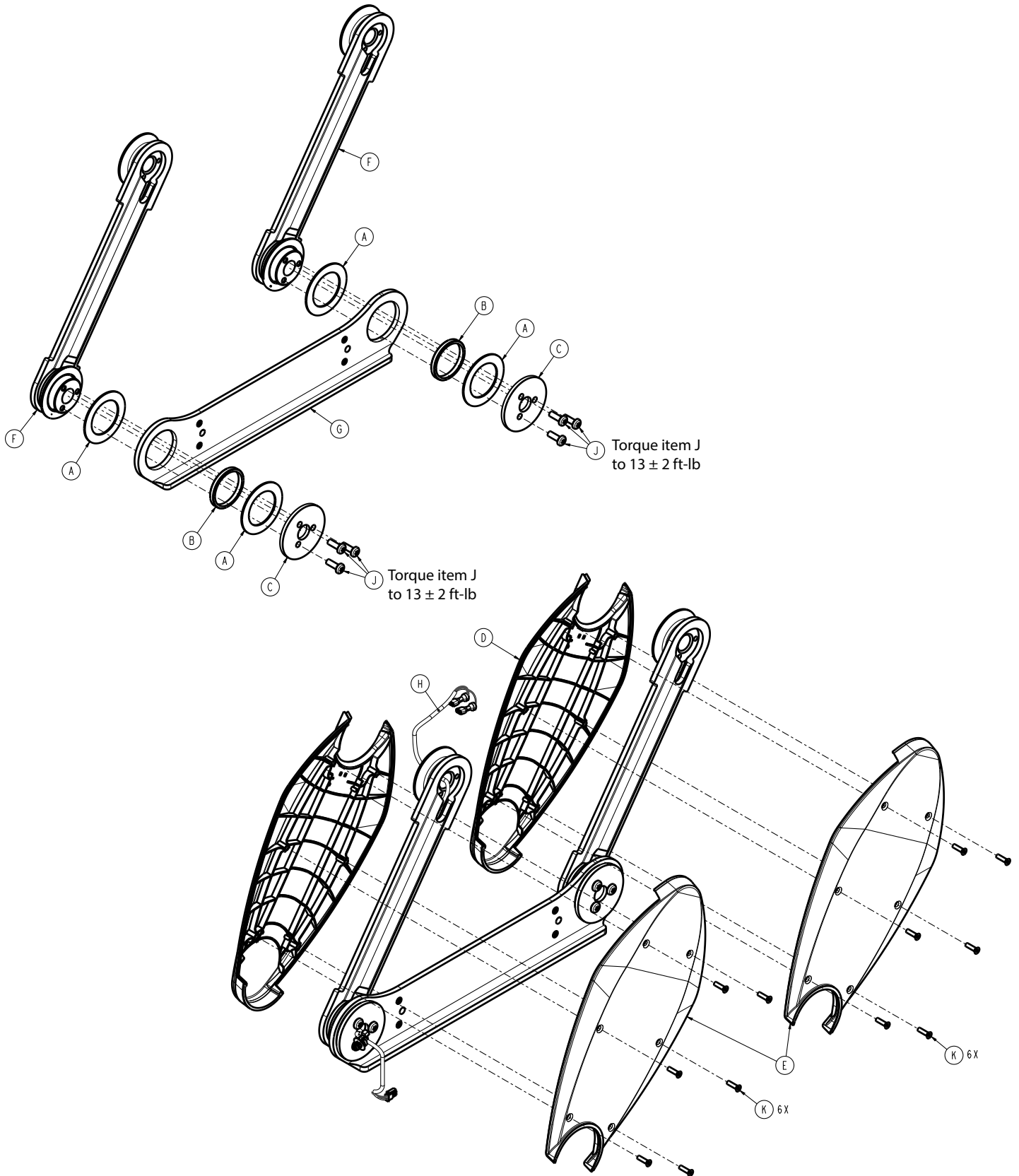
Siderail assembly, foot end - 300901110400 Rev AA (Reference only)

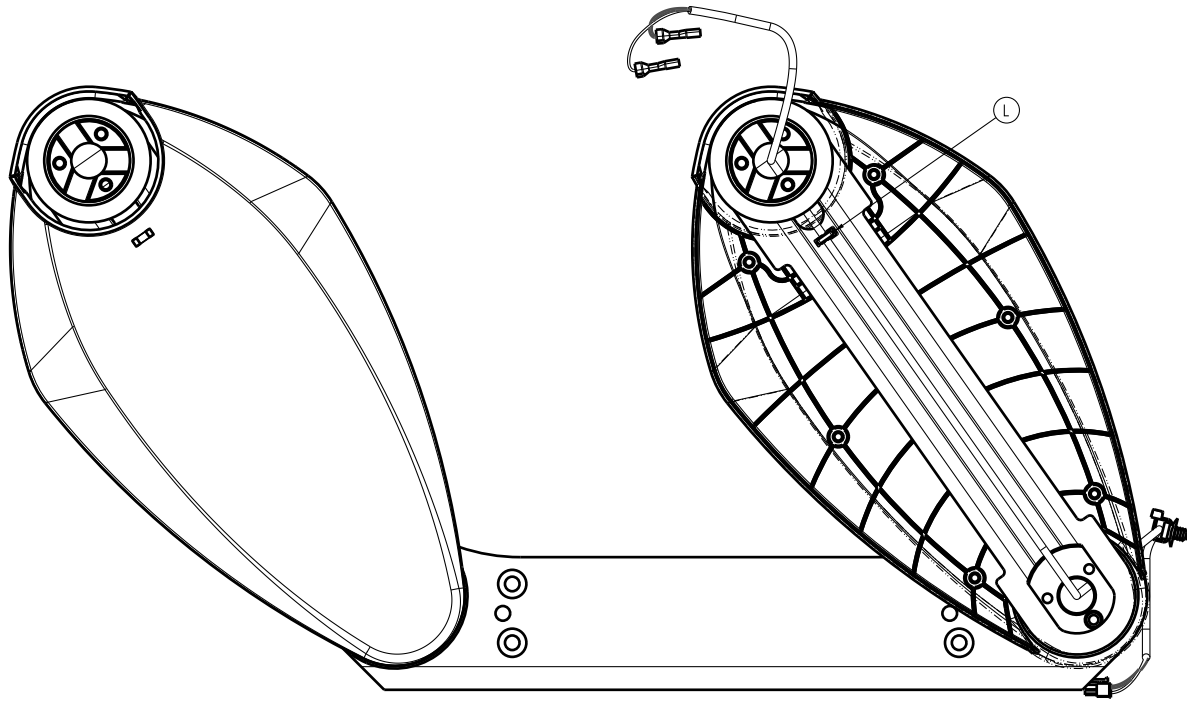
| Item | Number | Name | Quantity |
|------|--------------|--|----------|
| A | 300900110007 | Gas spring, foot | 1 |
| B | 300900110008 | Screw cover | 6 |
| C | 300900110011 | Thrust washer, large | 2 |
| D | 300900110012 | Thrust washer, small | 2 |
| E | 300900110013 | Release handle extension spring | 2 |
| F | 300900110014 | Pivot bearing | 2 |
| G | 300900110015 | Latch pawl assembly | 1 |
| H | 300900110017 | Latch pivot | 1 |
| J | 300900110019 | Pivot sleeve | 2 |
| K | 300900110031 | Bypass lever | 1 |
| L | 300900110133 | Back plate ball stud | 1 |
| M | 300900110117 | Release handle, head right/foot left | 1 |
| N | 300900110401 | Cover, foot left | 1 |
| P | 300900110420 | Hoop/back plate assembly, foot left | 1 |
| R | 300901110425 | <i>Arm/carrier assembly, foot end (page 191)</i> | 1 |
| T | 300900110430 | Timing link assembly, foot left | 1 |
| U | 300900110845 | Switch assembly, foot left | 1 |
| V | 700000492445 | Pan head thread forming screw | 1 |
| W | 700000494203 | Hex large flange lock nut | 2 |
| Y | 700000494204 | Hex super flange lock nut | 1 |
| AA | 700000533297 | Pan head machine screw | 6 |
| AB | 700000550115 | Pan head thread forming screw | 6 |
| AC | 700000576833 | Pan head machine screw | 1 |
| AD | 0011-016-000 | Plain washer | 1 |

Arm/carrier assembly, foot end

300901110325 Rev AA (right) (Reference only)

300901110425 Rev AA (left) (Reference only)





Arm/carrier assembly, foot end - 300901110325 Rev AA (Reference only)

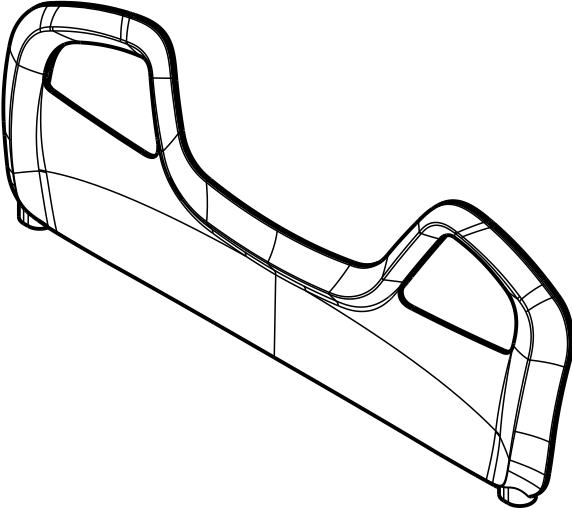
| Item | Number | Name | Quantity |
|------|--------------|--|----------|
| A | 300900110012 | Thrust washer, small | 4 |
| B | 300900110014 | Pivot bearing | 2 |
| C | 300900110018 | Lower pivot plate | 2 |
| D | 300900110021 | Arm cover, outer | 2 |
| E | 300900110022 | Arm cover, inner | 2 |
| F | 300900110025 | Arm weldment | 2 |
| G | 300900110326 | Foot end carrier, right | 1 |
| H | 300901110834 | Cable assembly | 1 |
| J | 700000533297 | Pan head machine screw | 6 |
| K | 700000590652 | Flat countersunk head thread forming screw | 12 |
| L | 3000-300-114 | Cable tie | 1 |

Arm/carrier assembly, foot end - 300901110425 Rev AA (Reference only)

| Item | Number | Name | Quantity |
|------|--------------|--|----------|
| A | 300900110012 | Thrust washer, small | 4 |
| B | 300900110014 | Pivot bearing | 2 |
| C | 300900110018 | Lower pivot plate | 2 |
| D | 300900110021 | Arm cover, outer | 2 |
| E | 300900110022 | Arm cover, inner | 2 |
| F | 300900110025 | Arm weldment | 2 |
| G | 300900110426 | Foot end carrier, left | 1 |
| H | 300901110834 | Cable assembly | 1 |
| J | 700000533297 | Pan head machine screw | 6 |
| K | 700000590652 | Flat countersunk head thread forming screw | 12 |
| L | 3000-300-114 | Cable tie | 1 |

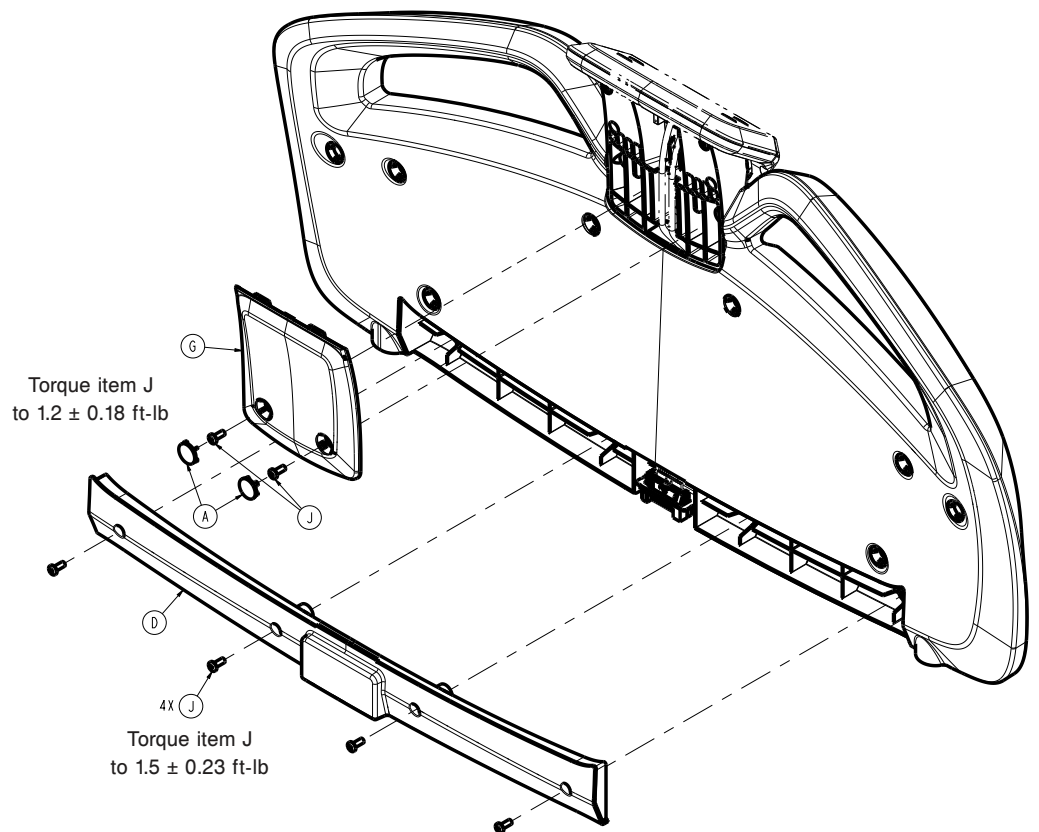
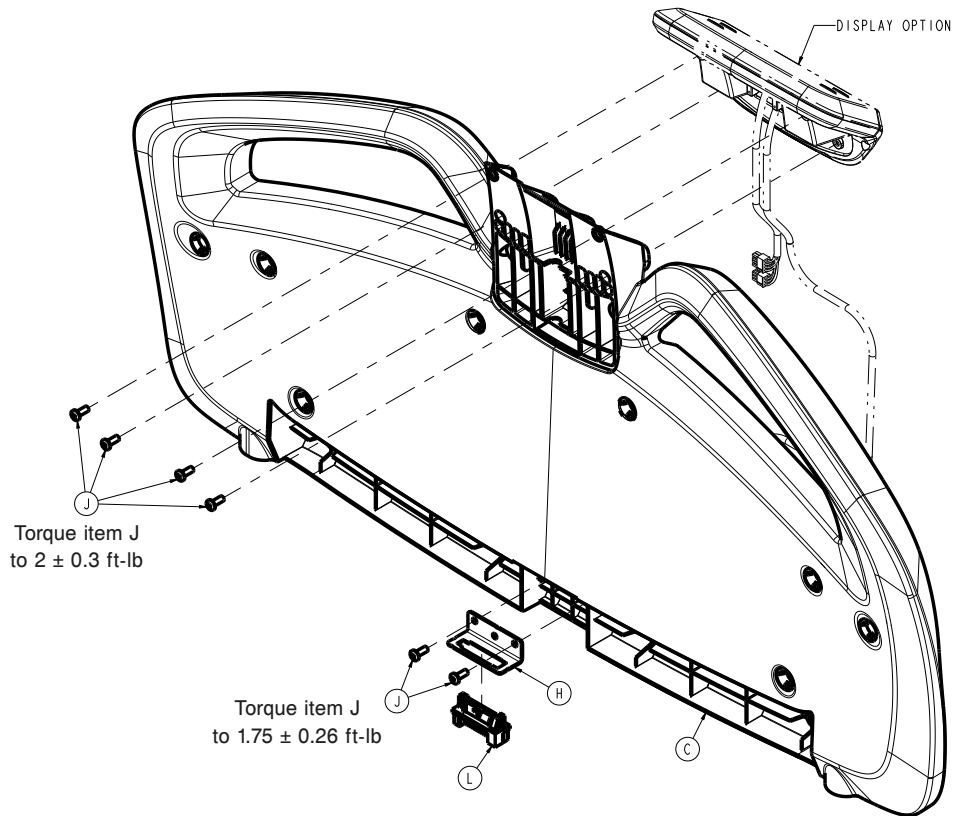
Headboard - 300900210010

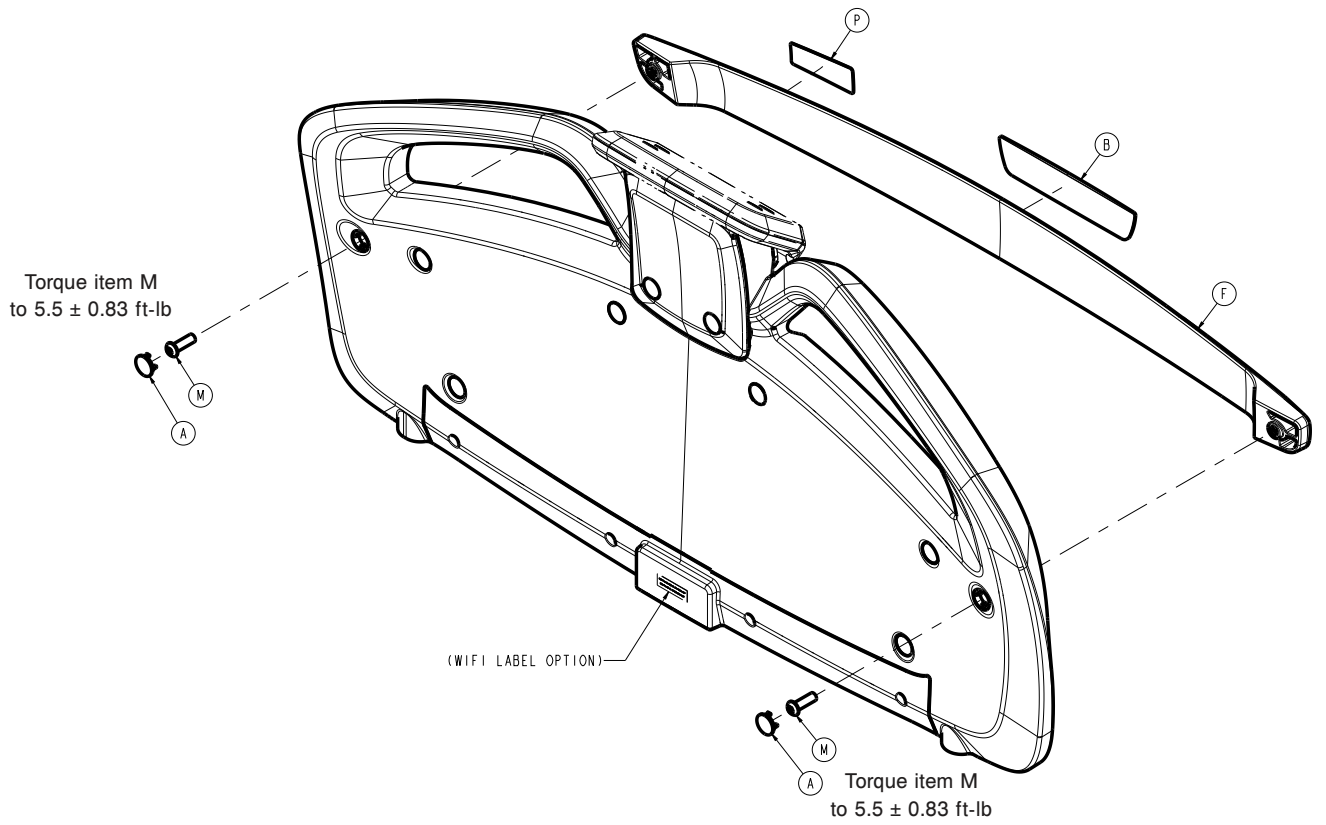
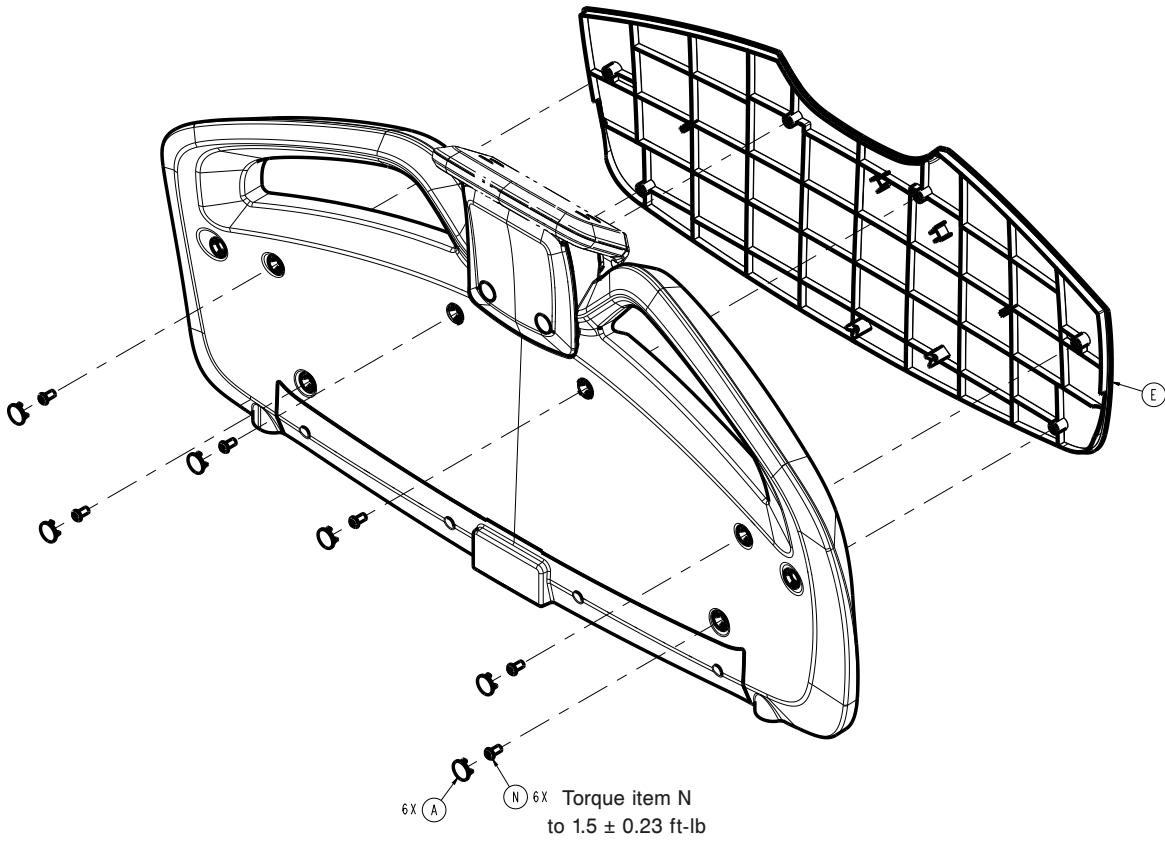
Rev AC (Reference only)

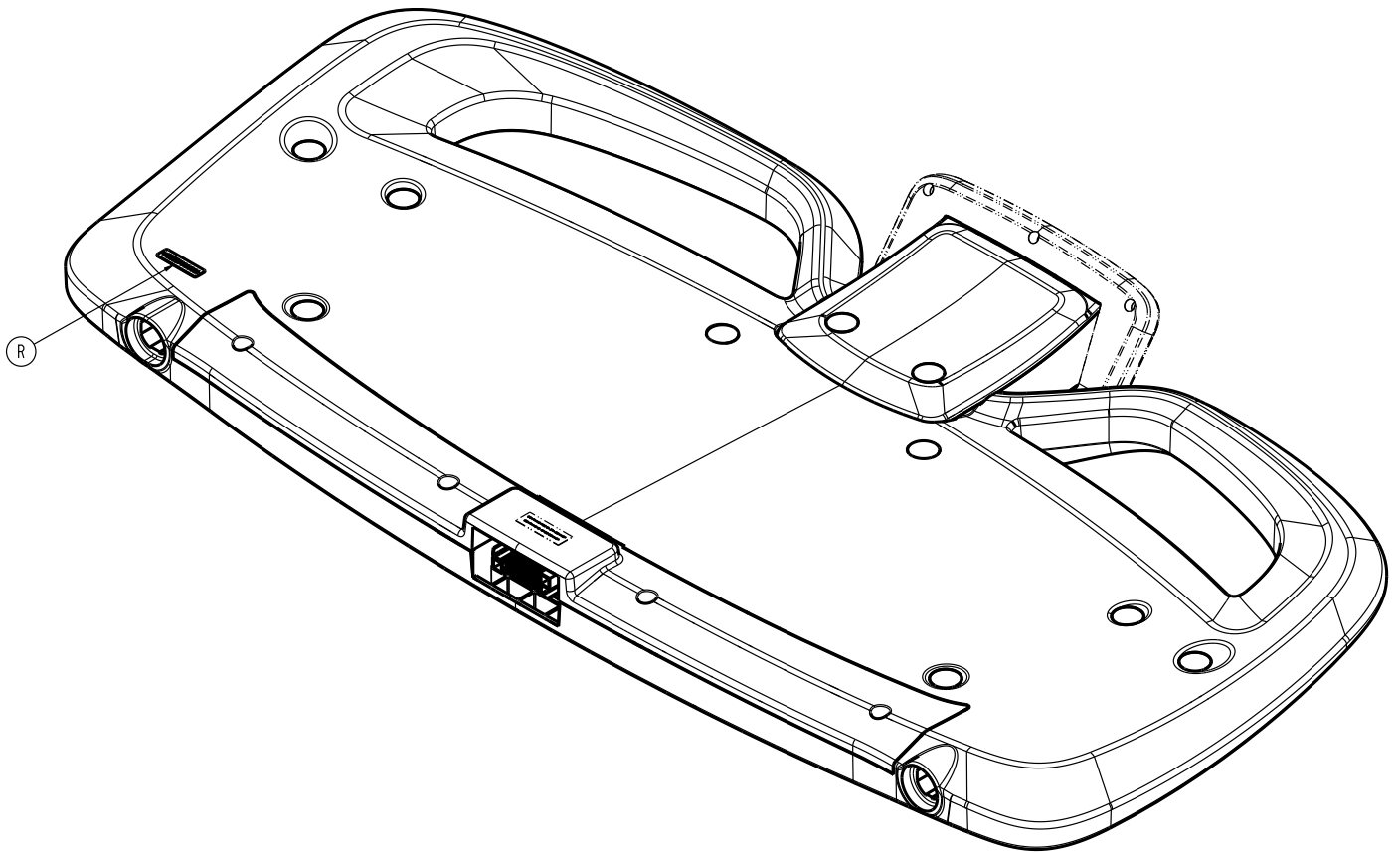


Footboard common components assembly

300900220001 Rev AD (Reference only)



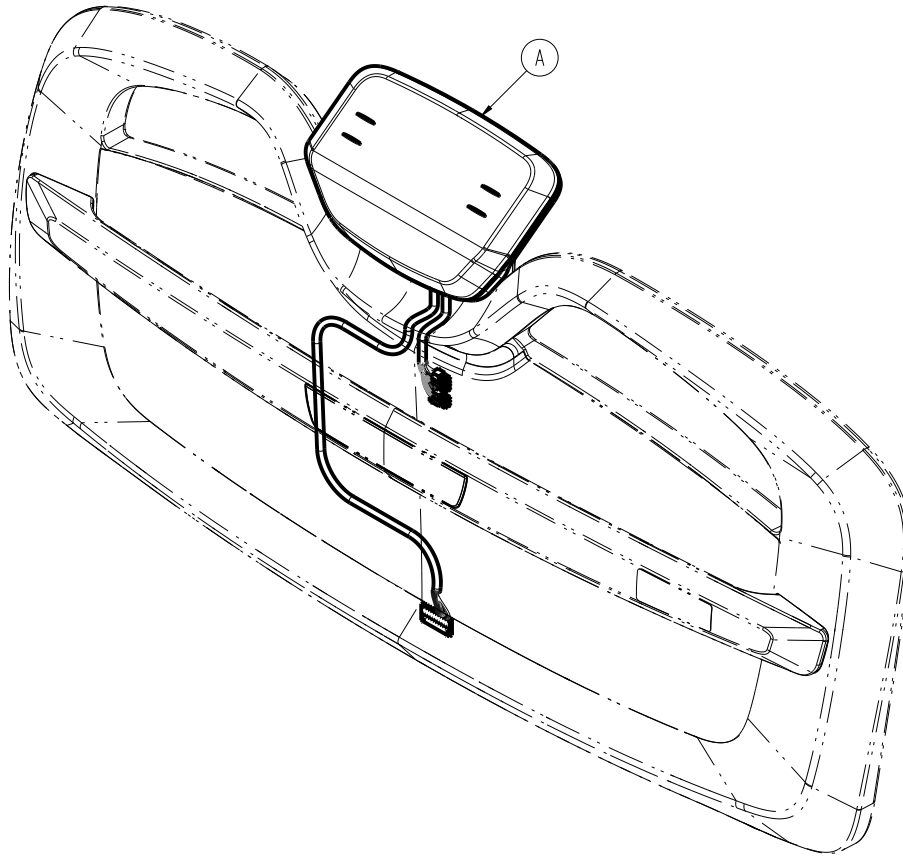




| Item | Number | Name | Quantity |
|------|--------------|------------------------|----------|
| A | 300900110008 | Screw cover | 10 |
| B | 300900220006 | Label, Stryker logo | 1 |
| C | 300900220010 | Footboard | 1 |
| D | 300900220011 | Lower back cover | 1 |
| E | 300900220012 | Front panel | 1 |
| F | 300900220013 | Pump rack | 1 |
| G | 300900220014 | Upper back cover | 1 |
| H | 300900220021 | Connector bracket | 1 |
| J | 700000798824 | Pan head machine screw | 12 |
| L | 700000820484 | Blind mating connector | 1 |
| M | 700000859385 | Button head cap screw | 2 |
| N | 0004-589-000 | Button head cap screw | 6 |
| P | 300900220007 | Label, pump rack | 1 |
| R | 300900220008 | Label, serial number | 1 |

Footboard assembly, basic

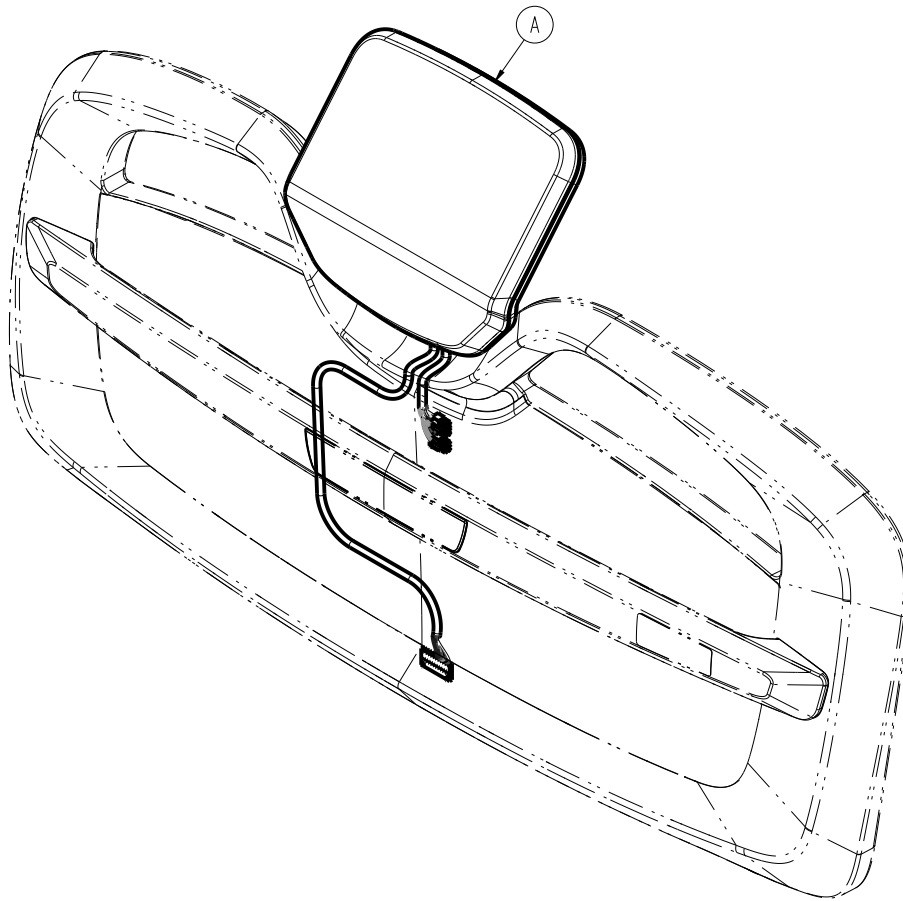
300900220002 Rev AB (Reference only)



| Item | Number | Name | Quantity |
|------|--------------|------------------------------------|----------|
| A | 300900220250 | Display assembly, basic with Wi-Fi | 1 |

Footboard assembly, advanced

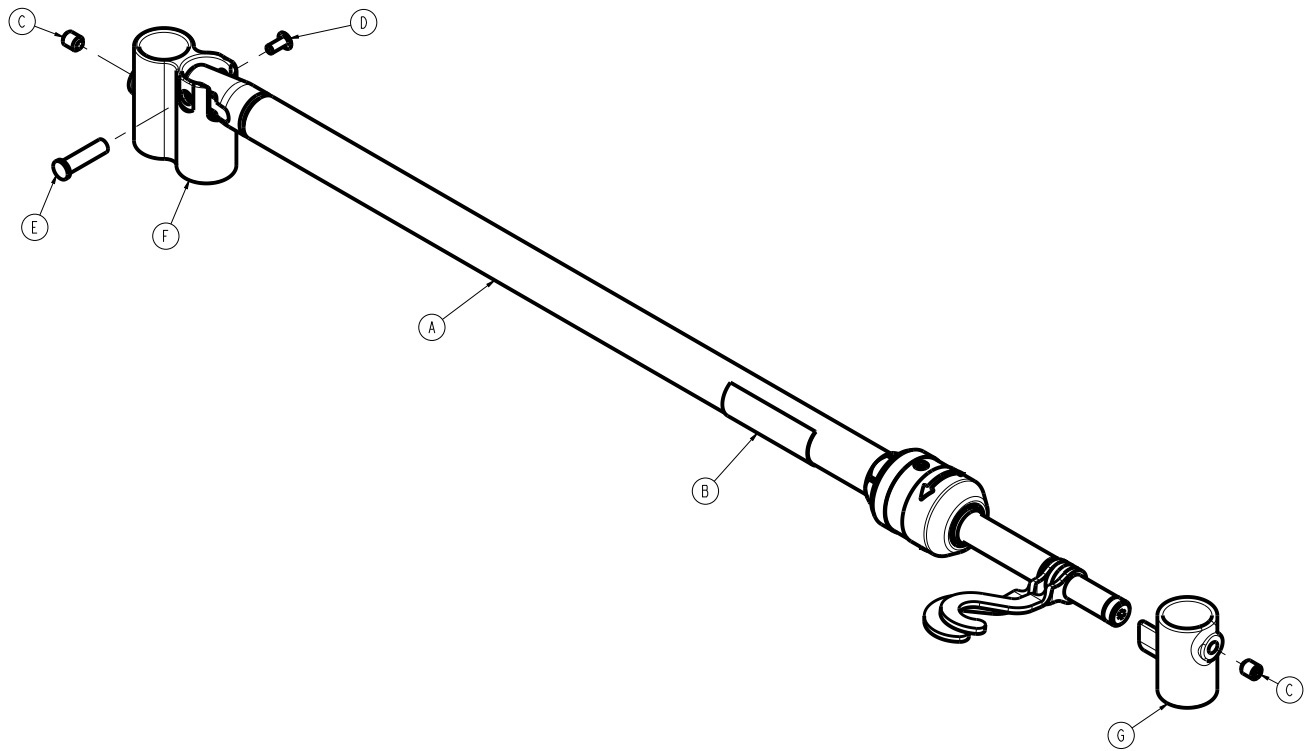
300900220004 Rev AA (Reference only)



| Item | Number | Name | Quantity |
|------|--------------|----------------------------|----------|
| A | 300900220300 | Display assembly, advanced | 1 |

HAVASU IV pole assembly, two-stage, single - 300900350100

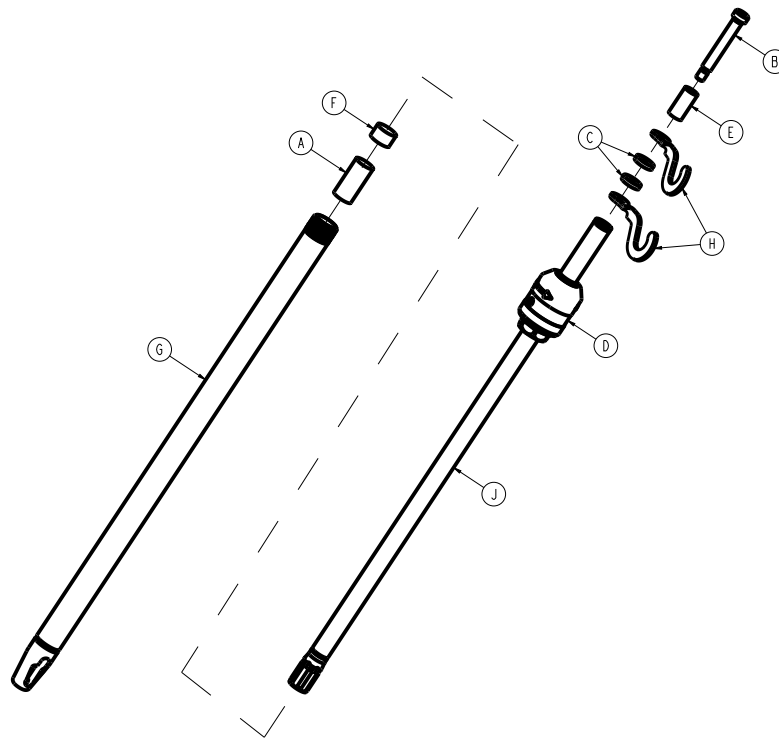
Rev AB (Reference only)



| Item | Number | Name | Quantity |
|------|--------------|---|----------|
| A | 300900350010 | HAVASU IV pole assembly, two-stage (page 200) | 1 |
| B | 300900350101 | Label, single 2 stage IV pole | 1 |
| C | 0021-193-000 | Set screw | 2 |
| D | 0025-079-000 | Dome head pop rivet | 1 |
| E | 0785-048-025 | Handle pivot pin | 1 |
| F | 2035-112-011 | IV receptacle, head end left | 1 |
| G | 3000-311-036 | IV rest | 1 |

HAVASU IV pole assembly, two-stage

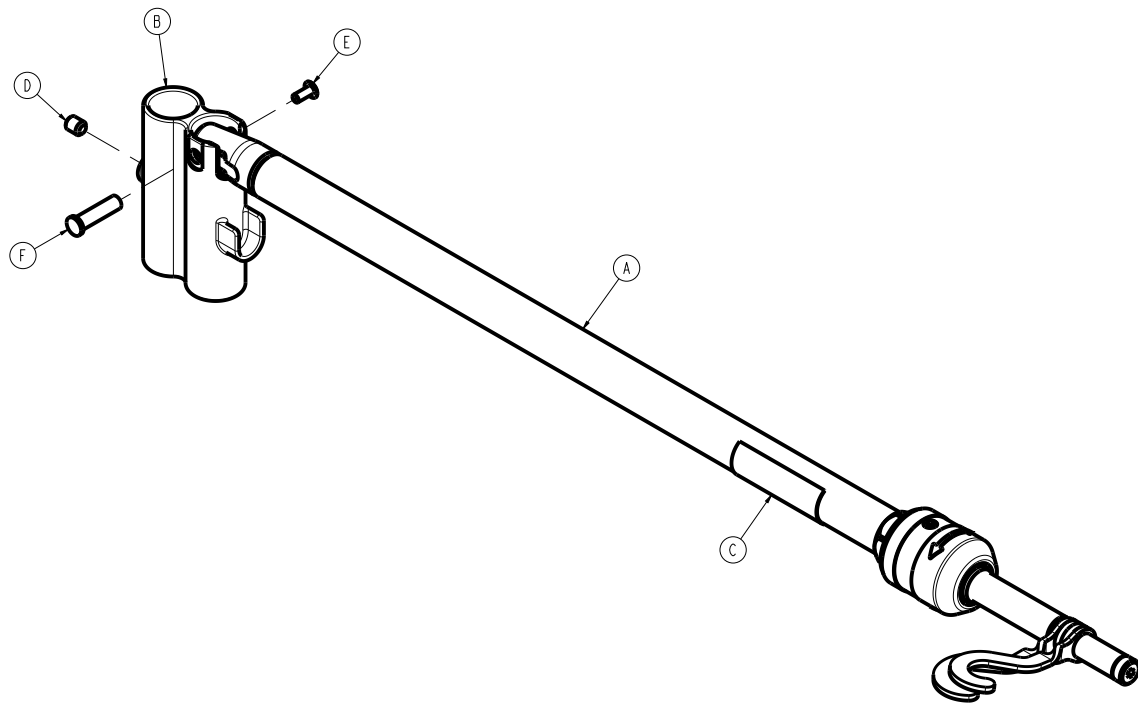
300900350010 Rev AB (Reference only)



| Item | Number | Name | Quantity |
|------|--------------|-----------------------|----------|
| A | 300900350011 | IV pole spacer | 1 |
| B | 0008-031-000 | Socket head set screw | 1 |
| C | 0052-017-000 | Spacer | 2 |
| D | 0785-035-103 | IV pole latch | 1 |
| E | 0926-400-062 | Stop sleeve | 1 |
| F | 1001-259-013 | Dampener | 1 |
| G | 1001-259-032 | Base tube weldment | 1 |
| H | 1010-059-016 | IV hook | 2 |
| J | 1211-110-029 | 2nd stage assembly | 1 |

HAVASU IV pole assembly, two-stage, dual, top - 300900350200

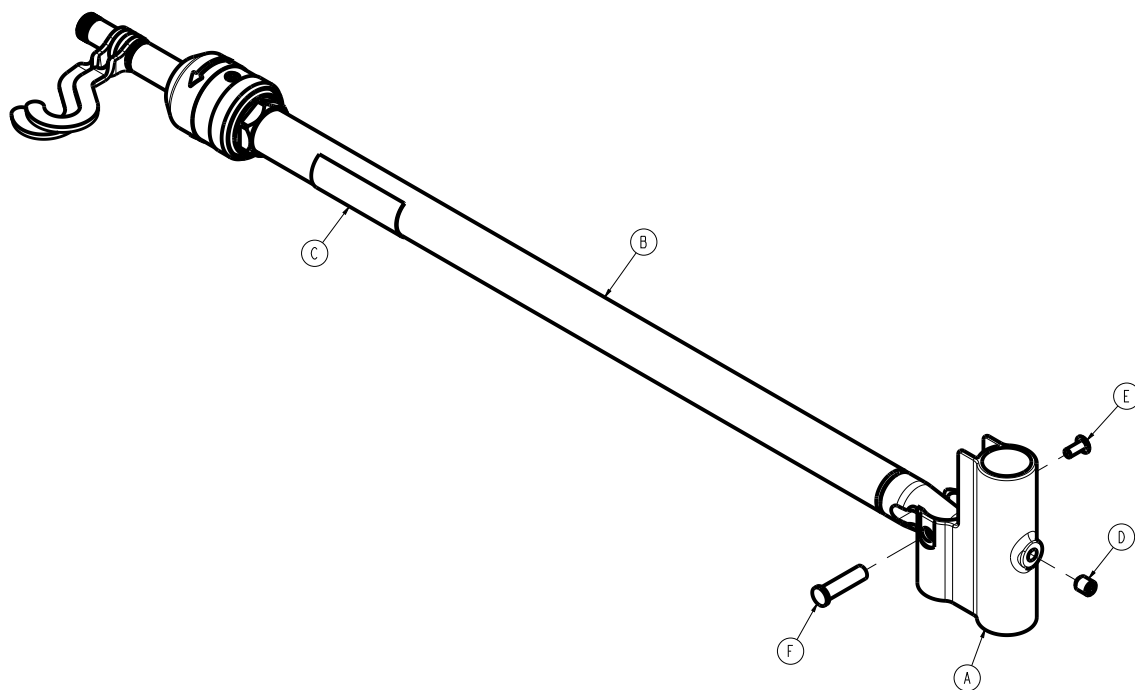
Rev AA (Reference only)



| Item | Number | Name | Quantity |
|------|--------------|---|----------|
| A | 300900350010 | <i>HAVASU IV pole assembly, two-stage</i> (page 200) | 1 |
| B | 300900350201 | IV pole double top receptacle | 1 |
| C | 300900350206 | Label, dual 2 stage IV pole, top | 1 |
| D | 0021-193-000 | Set screw | 1 |
| E | 0025-079-000 | Dome head pop rivet | 1 |
| F | 0785-048-025 | Handle pivot pin | 1 |

HAVASU IV pole assembly, two-stage, dual, bottom - 300900350250

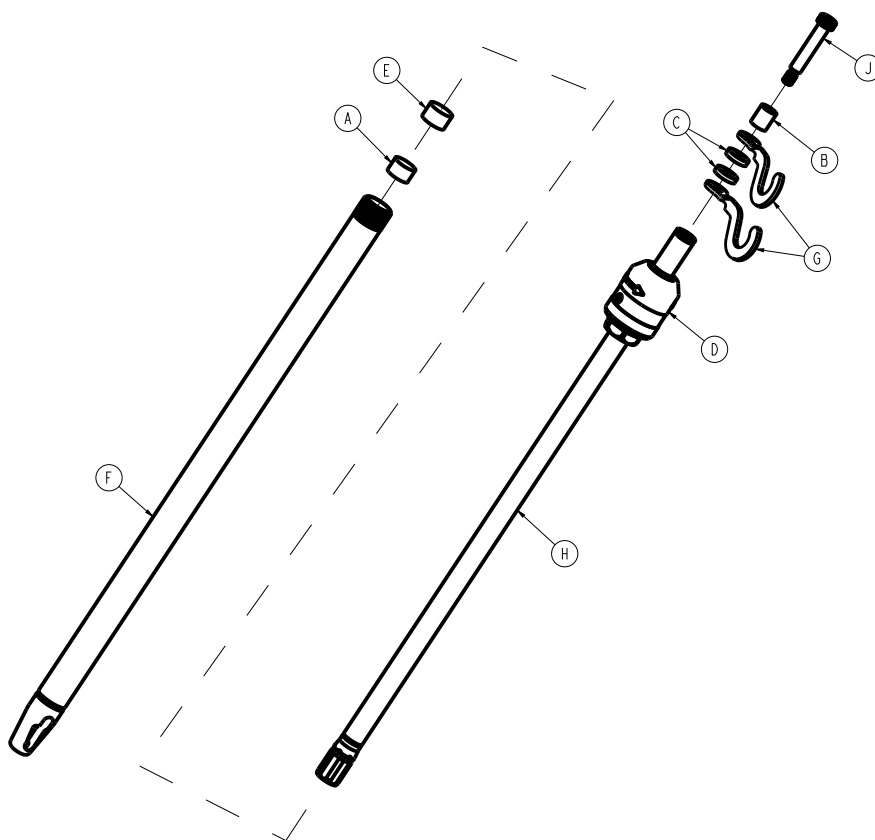
Rev AA (Reference only)



| Item | Number | Name | Quantity |
|------|--------------|---|----------|
| A | 300900350202 | IV pole double bottom receptacle | 1 |
| B | 300900350255 | <i>HAVASU IV pole assembly, two-stage</i> (page 203) | 1 |
| C | 300900350256 | Label, dual 2 stage IV pole, bottom | 1 |
| D | 0021-193-000 | Set screw | 1 |
| E | 0025-079-000 | Dome head pop rivet | 1 |
| F | 0785-048-025 | Handle pivot pin | 1 |

HAVASU IV pole assembly, two-stage

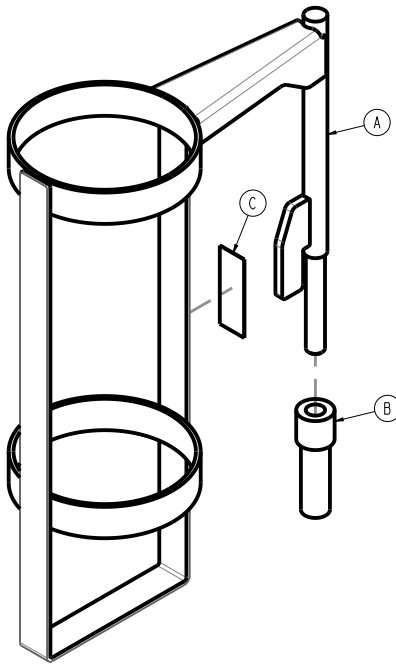
300900350255 Rev AA (Reference only)



| Item | Number | Name | Quantity |
|------|----------------|-------------------------------|----------|
| A | 300900350251 | IV pole spacer | 1 |
| B | 300900350252 | IV pole stop sleeve | 1 |
| C | 0052-017-000 | Spacer | 2 |
| D | 0785-035-103 | IV pole latch | 1 |
| E | 1001-259-013 | Dampener | 1 |
| F | 1001-259-032 | Base tube weldment | 1 |
| G | 1010-059-016 | IV hook | 2 |
| H | 1211-110-029 | 2nd stage assembly | 1 |
| J | Reference only | Hex socket head shoulder bolt | 1 |

Oxygen bottle holder assembly, standard - 300900450050

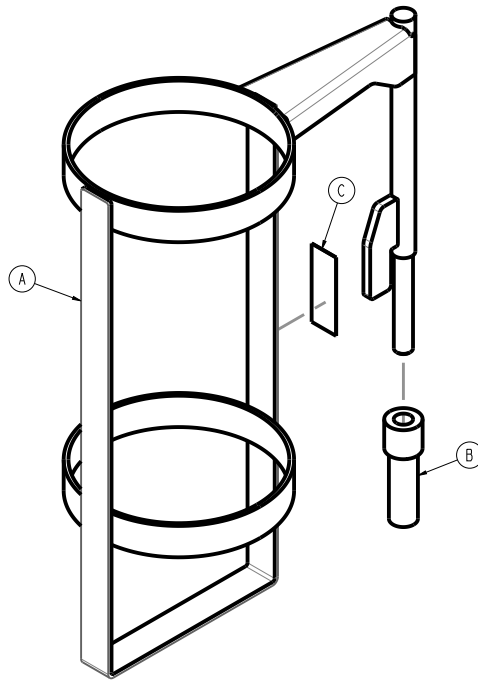
Rev AC (Reference only)



| Item | Number | Name | Quantity |
|------|--------------|---------------------------------------|----------|
| A | 300900450055 | Oxygen holder weldment | 1 |
| B | 2025-150-001 | Oxygen bottle holder adaptor | 1 |
| C | 300900450004 | Label, Oxygen bottle holder, standard | 1 |

Oxygen bottle holder assembly, large - 300900450150

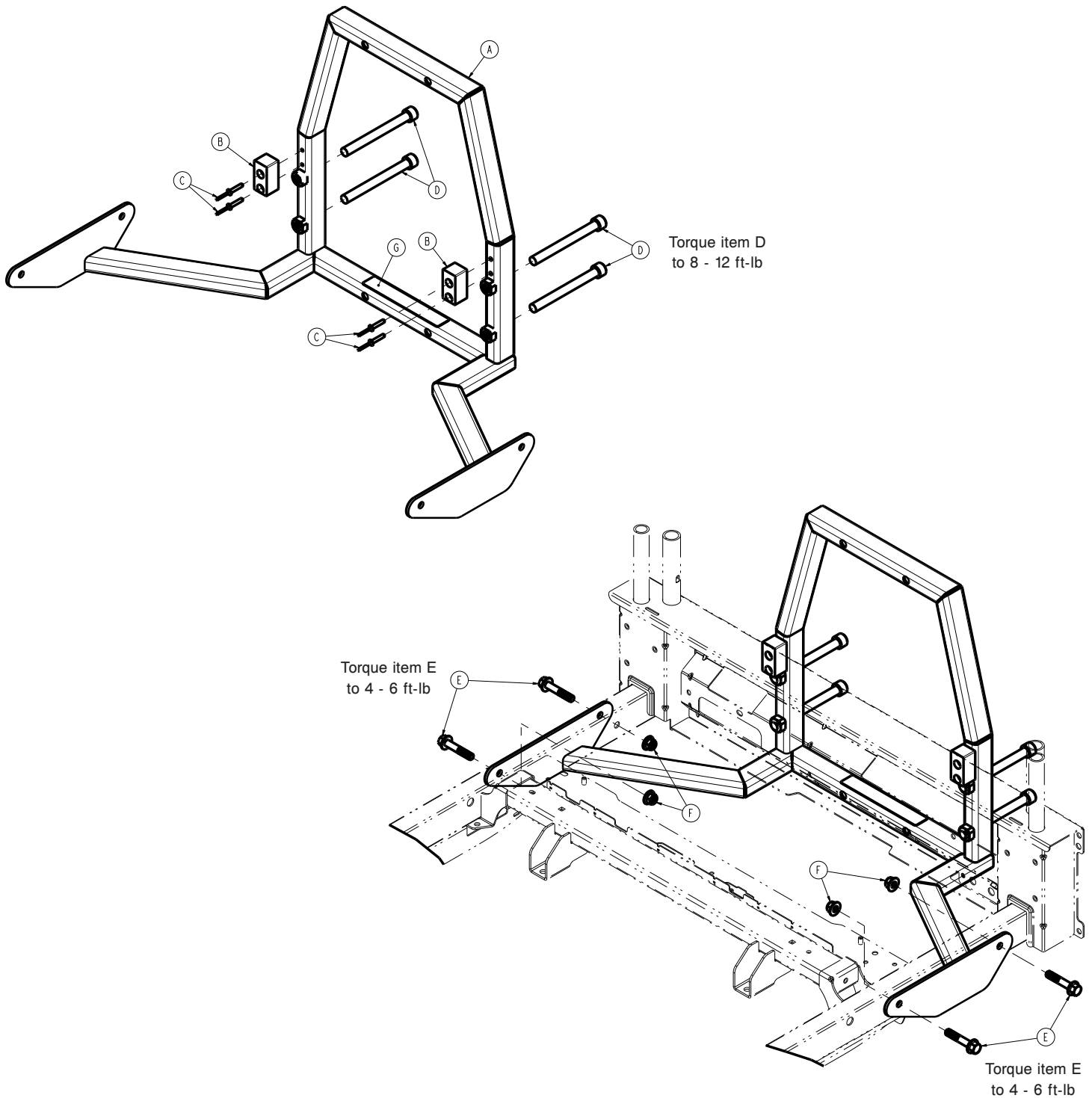
Rev AC (Reference only)



| Item | Number | Name | Quantity |
|------|--------------|------------------------------------|----------|
| A | 300900450155 | Large oxygen holder weldment | 1 |
| B | 2025-150-001 | Oxygen bottle holder adaptor | 1 |
| C | 300900450005 | Label, oxygen bottle holder, large | 1 |

Patient helper adapter bracket - 300900450100

Rev AD (Reference only)

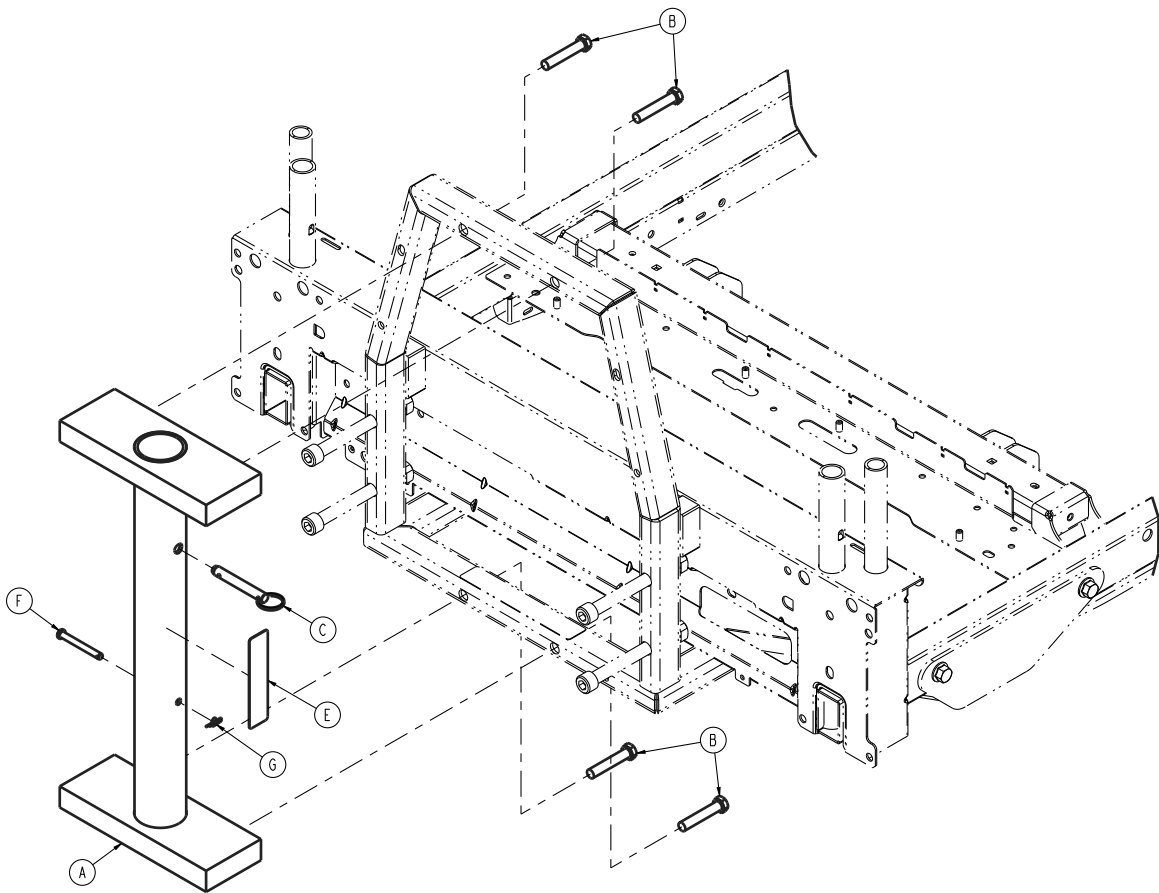


| Item | Number | Name | Quantity |
|------|--------------|---------------------------------|----------|
| A | 300900450110 | Patient helper weldment | 1 |
| B | 300900450118 | Patient helper support rest pad | 2 |
| C | 700000233246 | Dome head blind rivet | 4 |
| D | 700001076376 | Socket head cap screw | 4 |
| E | 700000717577 | Hex flange screw | 4 |

| Item | Number | Name | Quantity |
|-------------|---------------|---------------------------------------|-----------------|
| F | 700000717744 | Nylock flange hex nut | 4 |
| G | 300900450106 | Label, patient helper adapter bracket | 1 |

Zimmer vertical adapter accessory - 300900450105

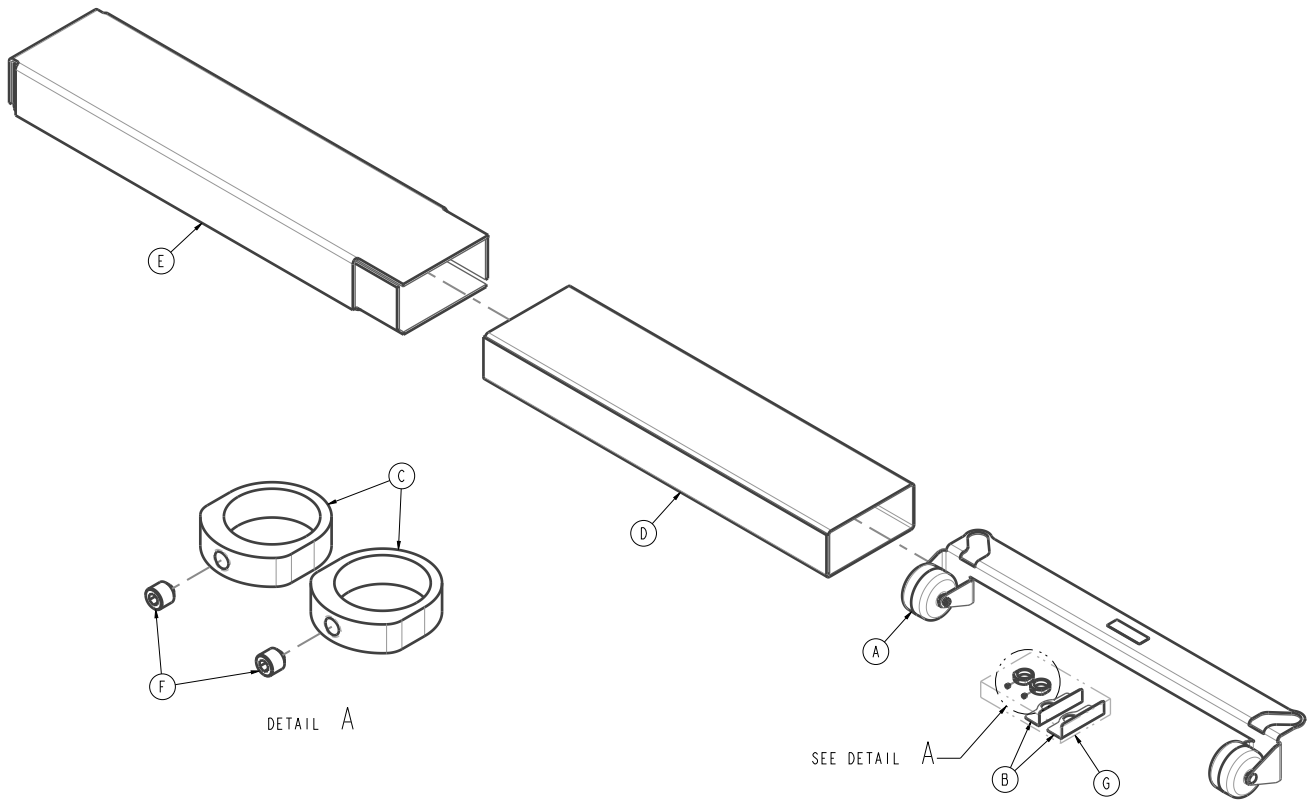
Rev AC (Reference only)

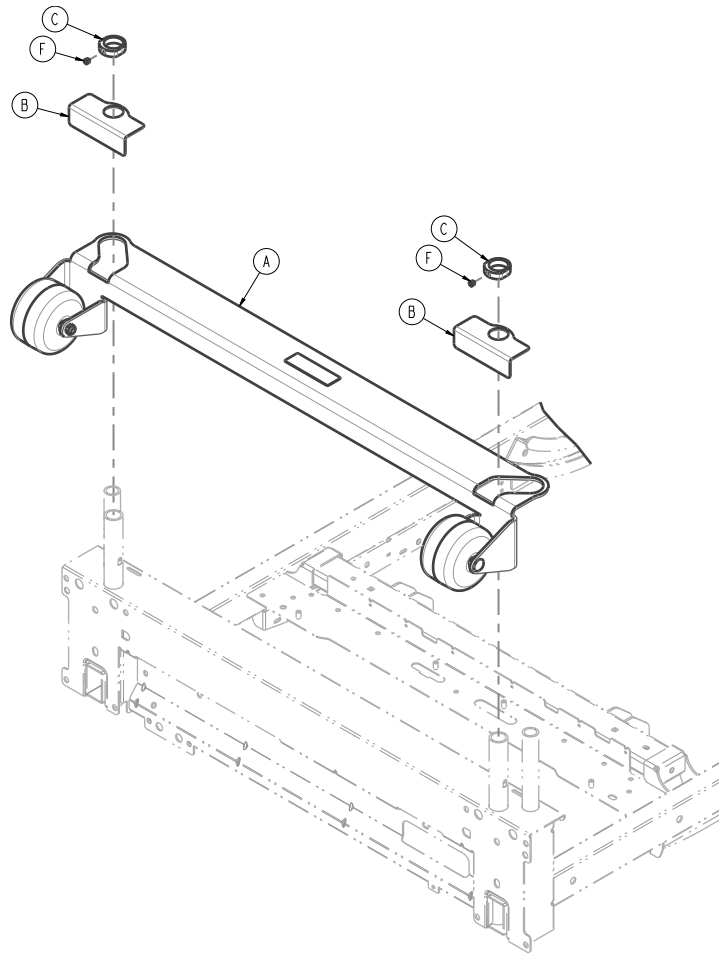


| Item | Number | Name | Quantity |
|------|--------------|--|----------|
| A | 300900450140 | Patient helper weldment pole adapter | 1 |
| B | 700001324859 | Hex head cap screw | 4 |
| C | 700001212905 | Quick-release pin | 1 |
| E | 300900450107 | Label, patient helper Zimmer adapter bracket | 1 |
| F | 0026-334-000 | Clevis pin | 1 |
| G | 0027-020-000 | Cotter, rue ring | 1 |

Roller bumper accessory - 300900450200

Rev AA (Reference only)

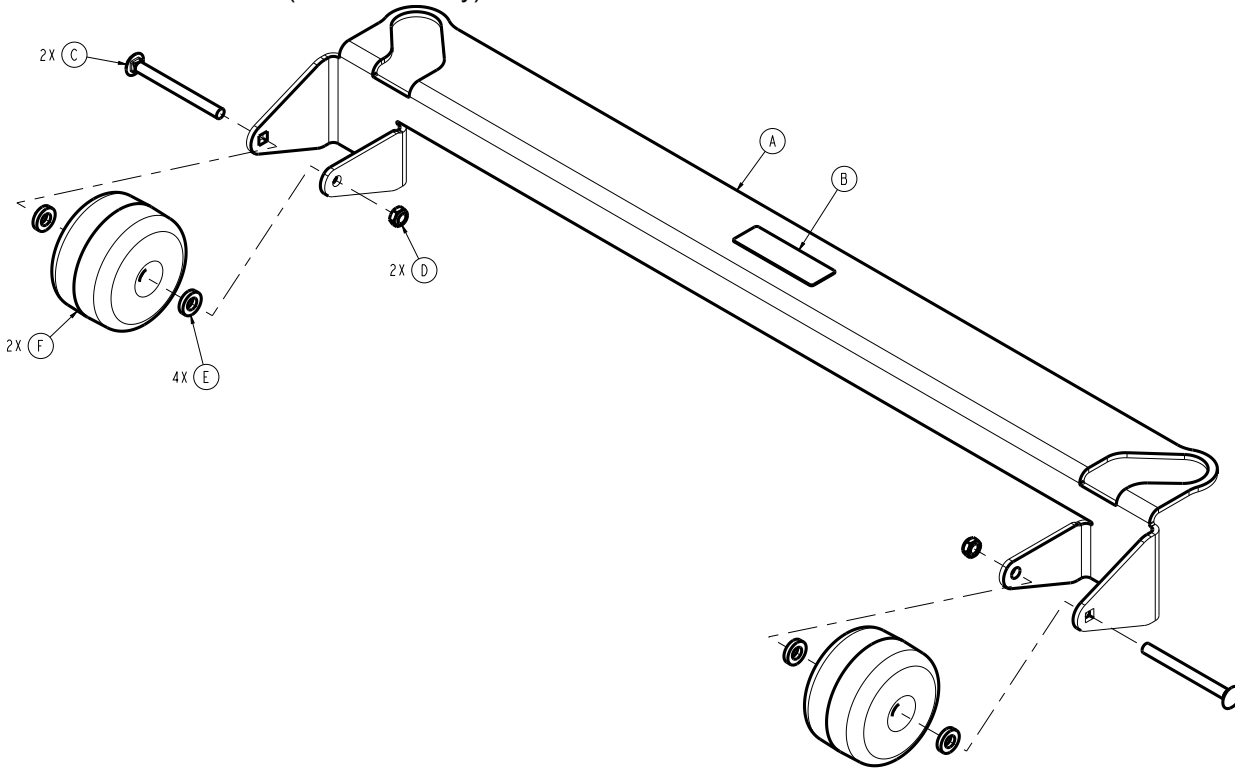




| Item | Number | Name | Quantity |
|------|----------------|---------------------------------|----------|
| A | 300900450205 | Roller bumper assembly | 1 |
| B | 300900450207 | Roller bumper retaining bracket | 2 |
| C | 300900450211 | Roller bumper lock collar | 2 |
| D | 300900450218 | Roller bumper inner box | 1 |
| E | 300900450219 | Roller bumper outer box | 1 |
| F | 0021-179-000 | Set screw | 2 |
| G | Reference only | Plastic bag | 1 |
| H | Reference only | Microfoam | 1 |

Roller bumper assembly

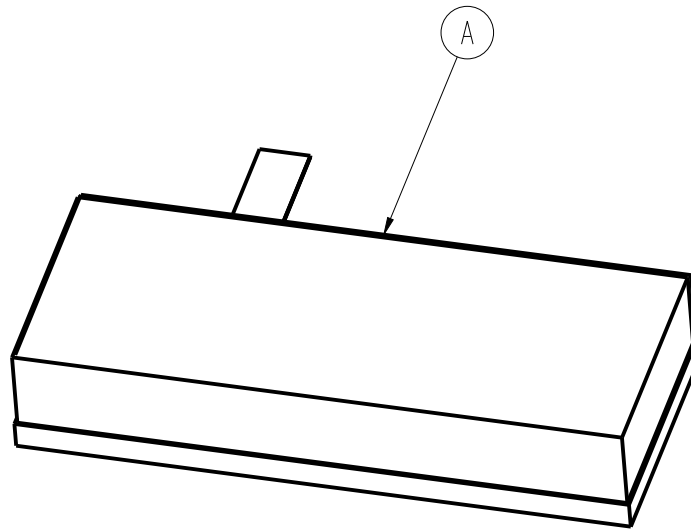
300900450205 Rev AA (Reference only)



| Item | Number | Name | Quantity |
|------|--------------|-----------------------------|----------|
| A | 300900450206 | Roller bumper bracket | 1 |
| B | 300900450209 | Label, roller bumper | 1 |
| C | 0005-043-000 | Round head square neck bolt | 2 |
| D | 0016-132-000 | Nylock hex nut | 2 |
| E | 0052-017-000 | Spacer | 4 |
| F | 3000-335-011 | Roller bumper | 2 |

Bed extender mattress - 300900670805

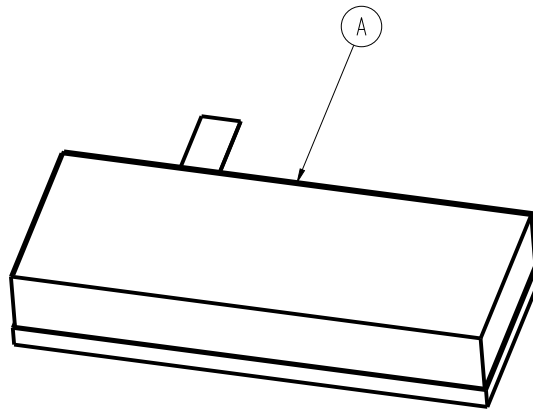
Rev AC (Reference only)



| Item | Number | Name | Quantity |
|------|--------------|-----------------------------------|----------|
| A | 300900670810 | Assembly, mattress, foot extender | 1 |

Bed extender mattress, international - 300900670905

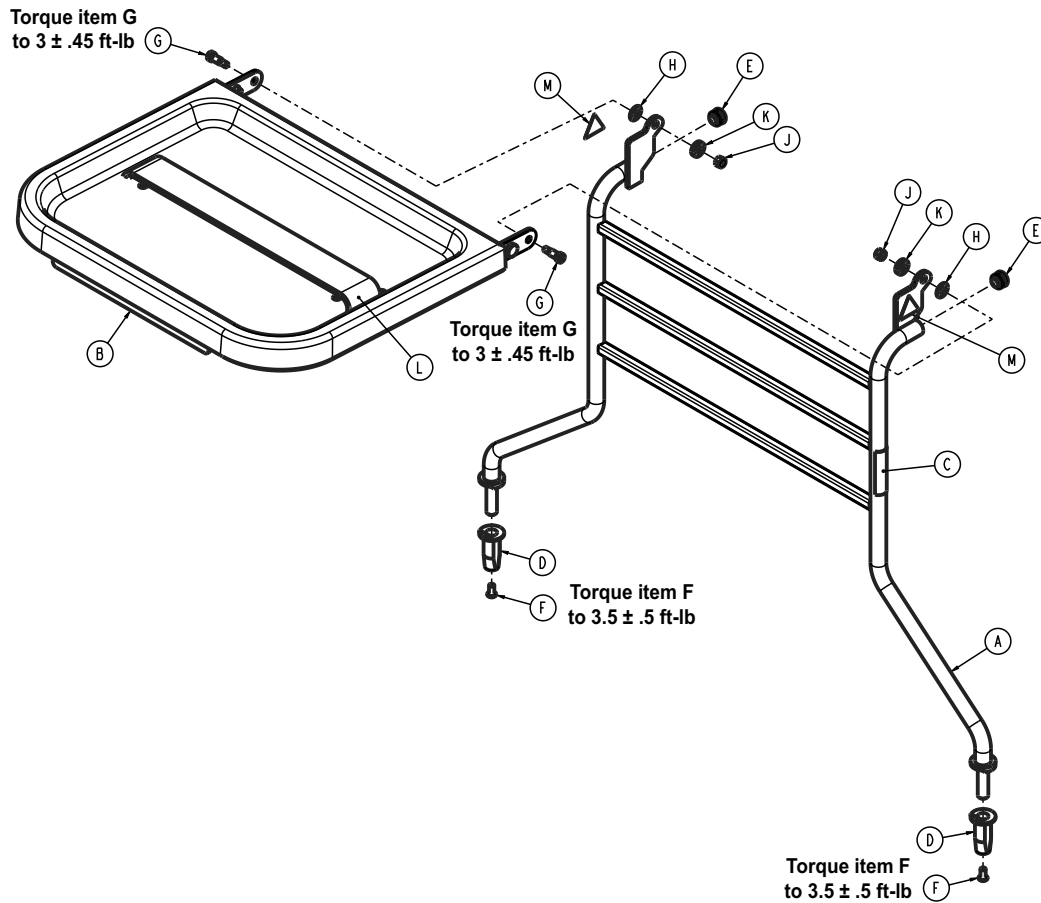
Rev AA (Reference only)



| Item | Number | Name | Quantity |
|------|--------------|--|----------|
| A | 300900670910 | Assembly, mattress, international bed extender | 1 |

Defibrillator tray accessory - 300900450250

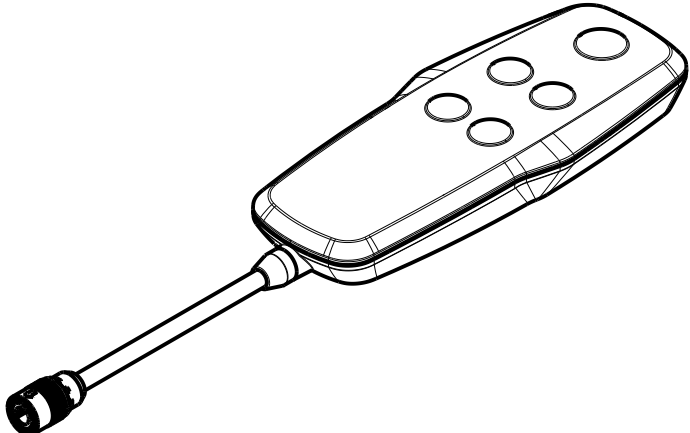
Rev AA (Reference only)



| Item | Number | Name | Quantity |
|------|--------------|--------------------------------------|----------|
| A | 300900450255 | Defib frame weldment | 1 |
| B | 300900450270 | Defib upper tray assembly | 1 |
| C | 300900450204 | Label, defibrillator tray | 1 |
| D | 300900450273 | Defib tube guide post insert | 2 |
| E | 700002362288 | Round tubing plug | 2 |
| F | 0004-574-000 | Hex socket head cap screw with patch | 2 |
| G | 0008-049-000 | Socket head shoulder bolt | 2 |
| H | 0014-020-000 | Washer | 2 |
| J | 0016-028-000 | Nylock hex nut | 2 |
| K | 0052-017-000 | Spacer | 2 |
| L | 1010-050-021 | Long strap | 1 |
| M | 6506-001-905 | Label, warning: crushing of hands | 2 |

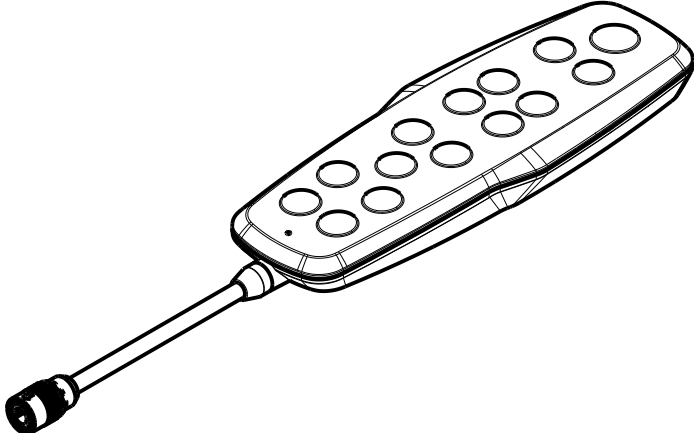
Pendant assembly, basic - 300900470100

Rev AB (Reference only)



Pendant assembly, advanced - 300900470200

Rev AB (Reference only)



Wireless coexistence notifications

Microwaves are regulated by the federal government through 21CFR1030.10 such that the amount of power that can leak from a microwave oven over its lifetime is very small, such as 5mW/cmsq @ 2" from the plane of the microwave surface. This radiation will roll off rapidly as the distance between the microwave and the measurement point increases. Other radiation in this band can be generated from unintentional radiators and from the control and source circuitry in the microwave. The level of this radiation is also controlled via federal regulations from the FCC and is not of a high magnitude. Both these two sources of noise are both contained inside the microwave oven which is shielded and designed to minimize this radiation. In general, the user of the medical device will not be in close proximity to the microwave oven when using the medical device.

EMC information

WARNING

- Portable RF communications equipment, including peripherals such as antenna cables and external antennas, should be no closer than 12 inches (30 cm) to any part of **ProCuity** bed series, including cables specified by the manufacturer.
- Avoid stacking or placing equipment adjacent with other equipment to prevent improper operation of the product. If such use is necessary, carefully observe stacked or adjacent equipment to make sure that they operate properly.
- 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.

The **ProCuity** bed series was evaluated using the following cables:

| Cable | Length (m) |
|----------------------|------------|
| AC mains input cable | 2.5 |
| AC aux input cable | 2.5 |
| AC aux output cable | 2.2 |
| Nurse call (DB-37) | 4.5 |
| USB cable | 4.7 |
| Pendant | 5.3 |

Guidance and manufacturer's declaration - electromagnetic emissions

The **ProCuity** bed series is intended for use in the electromagnetic environment specified below. The customer or the user of the **ProCuity** bed series should assure that it is used in such an environment.

| Emissions test | Compliance | Electromagnetic environment |
|--|------------|--|
| RF Emissions CISPR 11 | Group 1 | Note - The emissions characteristics of this equipment make it suitable for use in industrial areas and hospitals (CISPR 11 class A). If it is used in a residential environment (for which CISPR 11 class B is normally required) this equipment might not offer adequate protection to radio-frequency communication services. The user might need to take mitigation measures, such as relocating or re-orienting the equipment. |
| RF Emissions CISPR 11 | Class A | |
| Harmonic Emissions IEC 61000-3-2 | Class A | |
| Voltage Fluctuations Flicker Emissions IEC 61000-3-3 | Complies | |

Guidance and manufacturer's declaration - electromagnetic immunity


The **ProCuity** bed series is suitable for use in a professional healthcare facility environment and not 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 the **ProCuity** bed series should assure that it is used in such an environment and that the electromagnetic environment guidance listed below is followed.

| Immunity test | IEC 60601 test level | Compliance level | Electromagnetic environment-guidance |
|---|-----------------------------|-----------------------------|--|
| Electrostatic Discharge (ESD) IEC 61000-4-2 | ±8 kV contact ±15 kV air | ±8 kV contact ±15 kV air | Floors should be wood, concrete, or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30%. |

Guidance and manufacturer's declaration - electromagnetic immunity

| | | | |
|--|---|---|--|
| Electrostatic fast transient/ burst IEC 61000-4-4 | ±2 kV for power supply lines ±1 kV for input/output lines | ±2 kV for power supply lines ±1 kV for input/output lines | Main power quality should be that of a typical commercial or hospital environment. |
| Surge IEC 61000-4-5 | ±0.5 kV, ±1 kV lines to lines ±0.5 kV, ±1 kV, ±2 kV lines to earth | ±0.5 kV, ±1 kV lines to lines ±0.5 kV, ±1 kV, ±2 kV lines to earth | Main power quality should be that of a typical commercial or hospital environment. |
| Voltage dips, voltage variations and short interruptions on power supply input lines IEC 61000-4-11 | 0%U _T for 0.5 cycle at 0°, 45°, 90°, 135°, 180°, 225°, 270°, and 315° 0%U _T for 1 cycle 70%U _T (30% dip in U _T) for 25/30 cycles 0% U _T for 250/300 cycles | 0%U _T for 0.5 cycle at 0°, 45°, 90°, 135°, 180°, 225°, 270°, and 315° 0%U _T for 1 cycle 70%U _T (30% dip in U _T) for 25/30 cycles 0% U _T for 250/300 cycles | Main power quality should be that of a typical commercial or hospital environment. If the user of the ProCuity bed series requires continued operation during power main interruptions, it is recommended that the device be powered from an uninterrupted power supply or a battery. |
| Power frequency (50/60 Hz) magnetic field IEC 61000-4-8 | 30 A/m | 30 A/m | Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment. |

Note - U_T is the a.c. mains voltage before applications of the test level.

| | | | |
|---|---|-------------------------|--|
| <p>Conducted RF IEC 61000- 4-6</p> <p>Radiated RF IEC 61000-4-3</p> | <p>3 Vrms 150 kHz to 80 MHz 3 V/m 80 MHz to 2.7 GHz</p> | <p>3 Vrms 3 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 the ProCuity bed series.” 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 $D=(2)(\sqrt{P})$ where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and d is the recommended separation distance in meters (m).</p> <p>Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey^a, should be less than the compliance level in each frequency range^b.</p> <p>Interference may occur in the vicinity of equipment marked with the following symbol: </p> |
|---|---|-------------------------|--|

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

Note - The ISM (Industrial, Scientific, and Medical) bands between 0.15 MHz and 80 MHz are 6.765 MHz to 6.795 MHz; 13.553 MHz to 13.567 MHz; 26.957 MHz to 27.283 MHz; and 40.66 MHz to 40.70 MHz.

^aField strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast, and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the **ProCuity** bed series is used exceeds the applicable RF compliance level above, the **ProCuity** bed series should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating the **ProCuity** bed series.

^bOver the frequency range 150 kHz to 80 MHz, field strengths are less than 3 Vrms.

Recommended separation distances between portable and mobile RF communication equipment and the ProCuity bed series

The **ProCuity** bed series is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the **ProCuity** bed series can help prevent electromagnetic interferences by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the **ProCuity** bed series, including cables, as recommended below, according to the maximum output power of the communications equipment.

| Band (MHz) | Service | Maximum power (W) | Minimum separation distance (m) |
|-------------------|--|--------------------------|--|
| 380-390 | TETRA 400 | 1.8 | 0.3 |
| 430-470 | GMRS 460; FRS 460 | 2.0 | 0.3 |
| 704-787 | LTE Band 13, 17 | 0.2 | 0.3 |
| 800-960 | GSM 800/900; TETRA 800; iDEN 820; CDMA 850; LTE Band 5 | 2.0 | 0.3 |
| 1,700-1,990 | GSM 1800; CDMA 1900; GSM 1900; DECT; LTE Band 1, 3, 4, 25; UMTS | 2.0 | 0.3 |
| 2,400-2,570 | Bluetooth; WLAN; 802.11 b/g/n; RFID 2450; LTE Band 7 | 2.0 | 0.3 |
| 5,100-5,800 | WLAN 802.11 a/n | 0.2 | 0.3 |

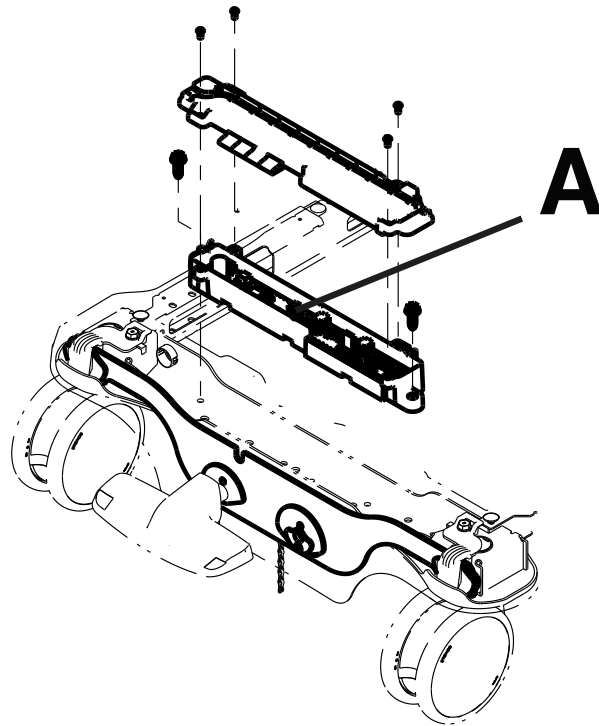
For transmitters rated at a maximum output power not listed above, the recommended separation distance d in meters (m) can be estimated using the equation applicable to the frequency of the transmitter, where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer.

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

Recycling passport

300900030300

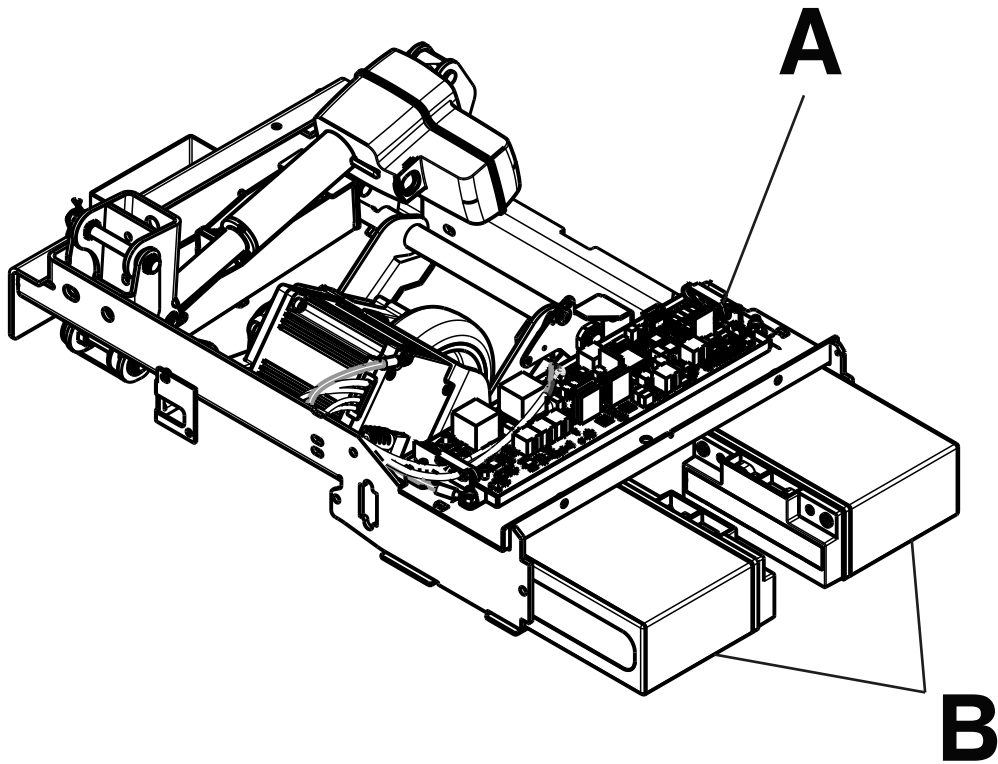
Rev AB



| Item | Recyclable part number | Material code | Important information | Quantity |
|------|------------------------|-----------------------|---------------------------------------|----------|
| A | 300900030900 | Printed circuit board | Diboron-trioxide, lead, lead-monoxide | 1 |

300900070250

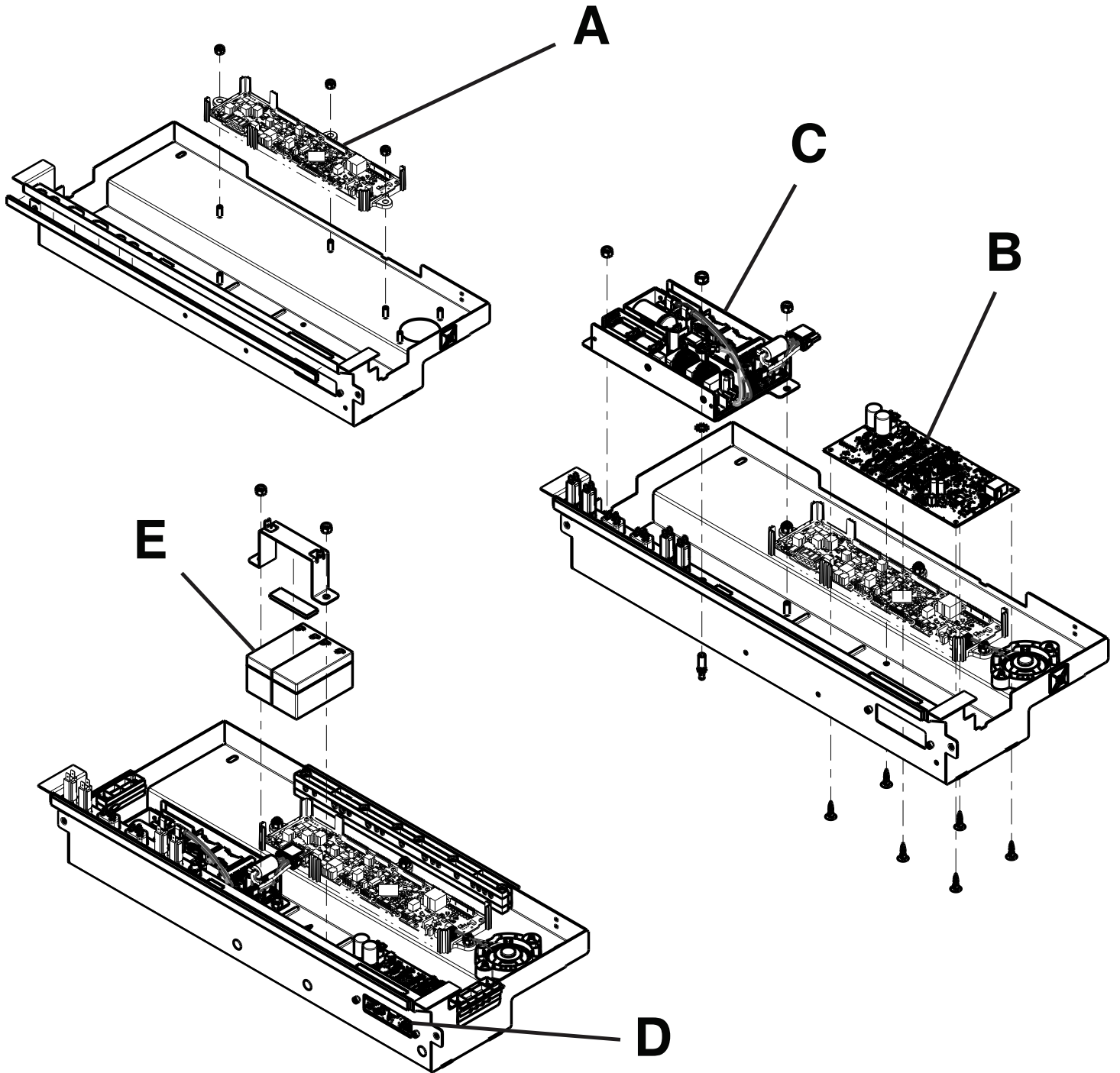
Rev AD



| Item | Recyclable part number | Material code | Important information | Quantity |
|------|------------------------|-----------------------|-----------------------|----------|
| A | 300900070050 | Printed circuit board | Lead, lead-monoxide | 1 |
| B | 700000341246 | Battery | | 2 |

300900100050

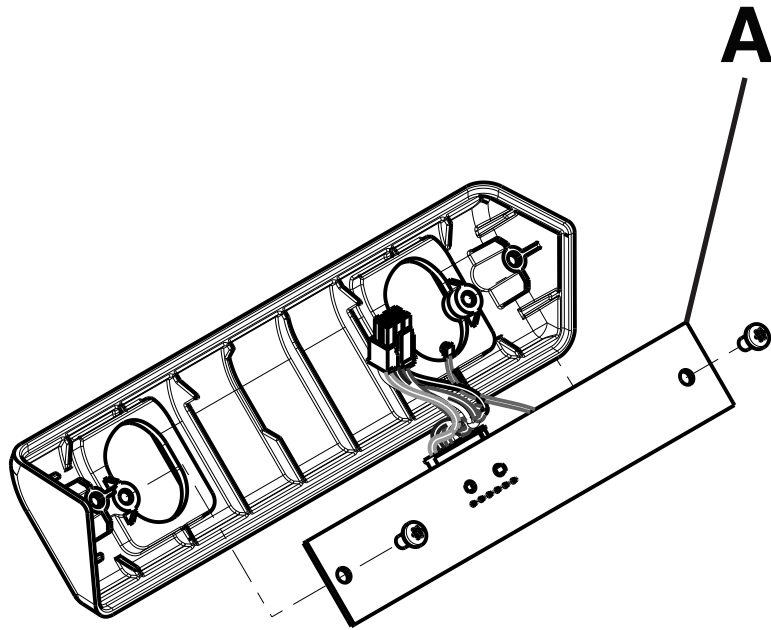
Rev AB



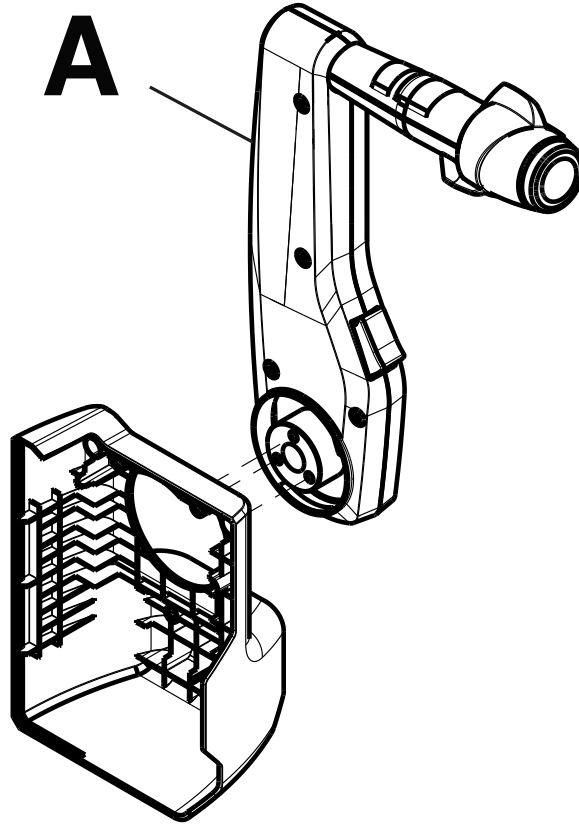
| Item | Recyclable part number | Material code | Important information | Quantity |
|------|--|-----------------------|--|----------|
| A | 300900100900/ 300900100910 | Printed circuit board | Diboron-trioxide, lead, lead-monoxide | 1 |
| B | 300900100950 | Printed circuit board | | 1 |
| C | 300900100970 | Power supply | | 1 |
| D | 300900380900/ 300900380910/ 300900380920 | Printed circuit board | | 1 |
| E | 700000341245 | Battery | | 2 |

300900100150

Rev AC



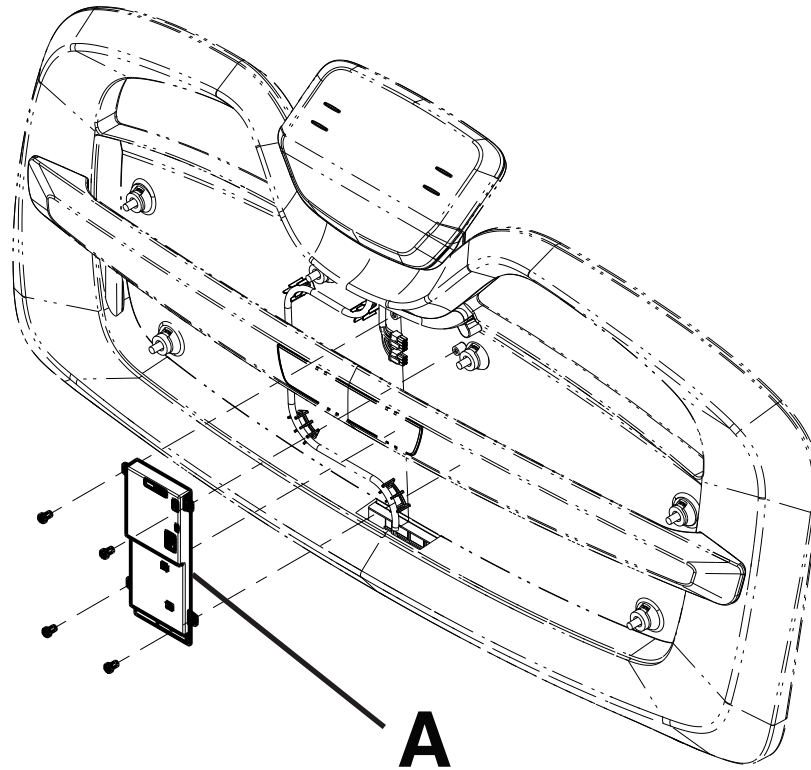
| Item | Recyclable part number | Material code | Important information | Quantity |
|------|------------------------|-----------------------|-----------------------|----------|
| A | 300900380930 | Printed circuit board | | 1 |



| Item | Recyclable part number | Material code | Important information | Quantity |
|------|------------------------|---|-----------------------|----------|
| A | 300900070200 | Printed circuit board, liquid crystal display | | 1 |

300900100500

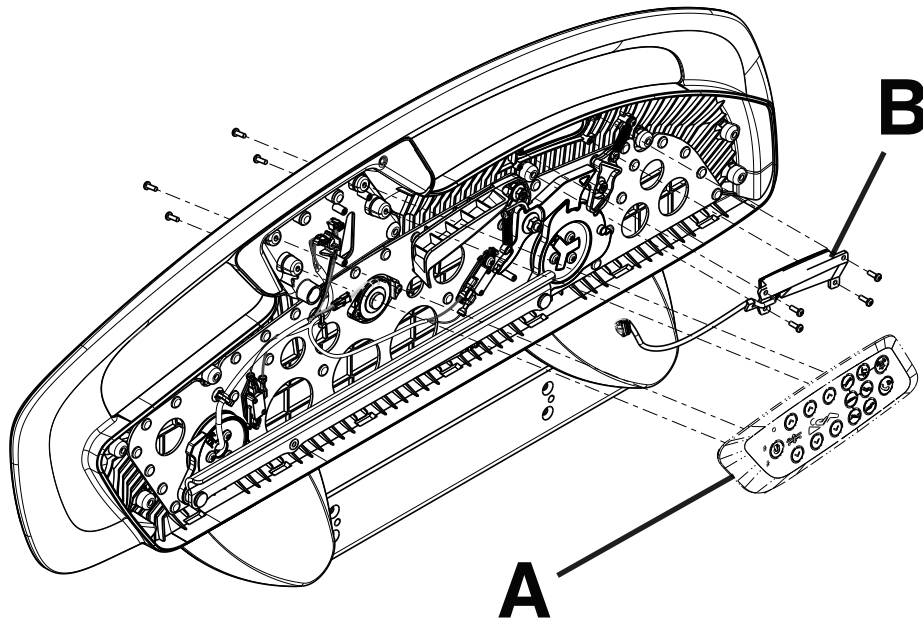
Rev AC



| Item | Recyclable part number | Material code | Important information | Quantity |
|------|------------------------|-----------------------|---|----------|
| A | 521206010900 | Printed circuit board | Diboron-trioxide, lead, lead-monoxide, 1-methyl-2-pyrrolidone | 1 |

300900110100/300900110200

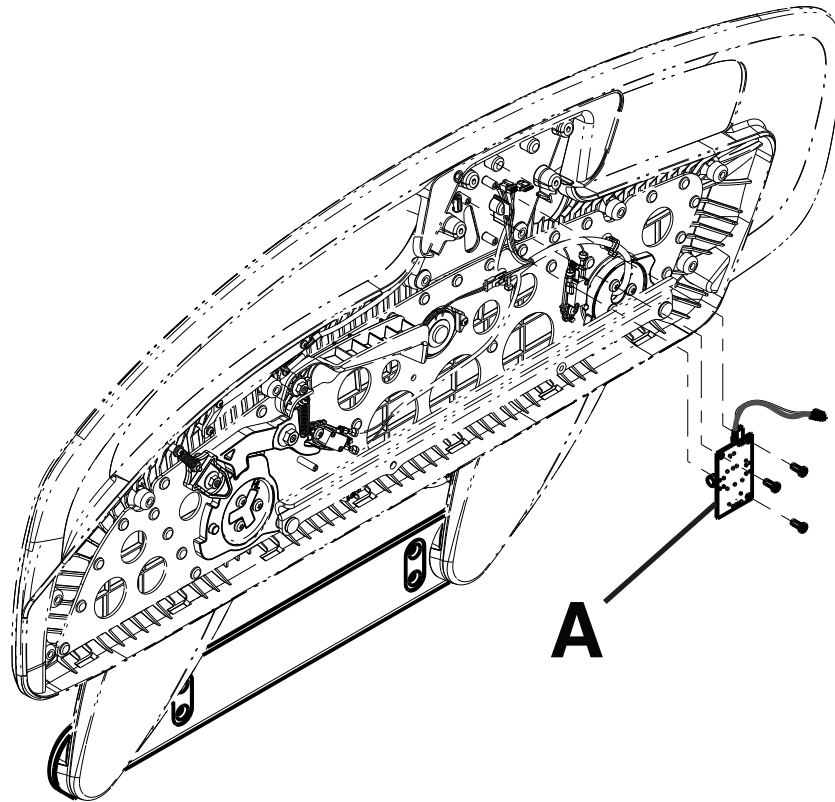
Rev AC/Rev AC



| Item | Recyclable part number | Material code | Important information | Quantity |
|------|--|-----------------------|-----------------------|----------|
| A | 300900110960/ 300900110965 300900110970/ 300900110975 | Printed circuit board | | 1 |
| B | 300900110950/ 300900110955 | Printed circuit board | | 1 |

300900110609

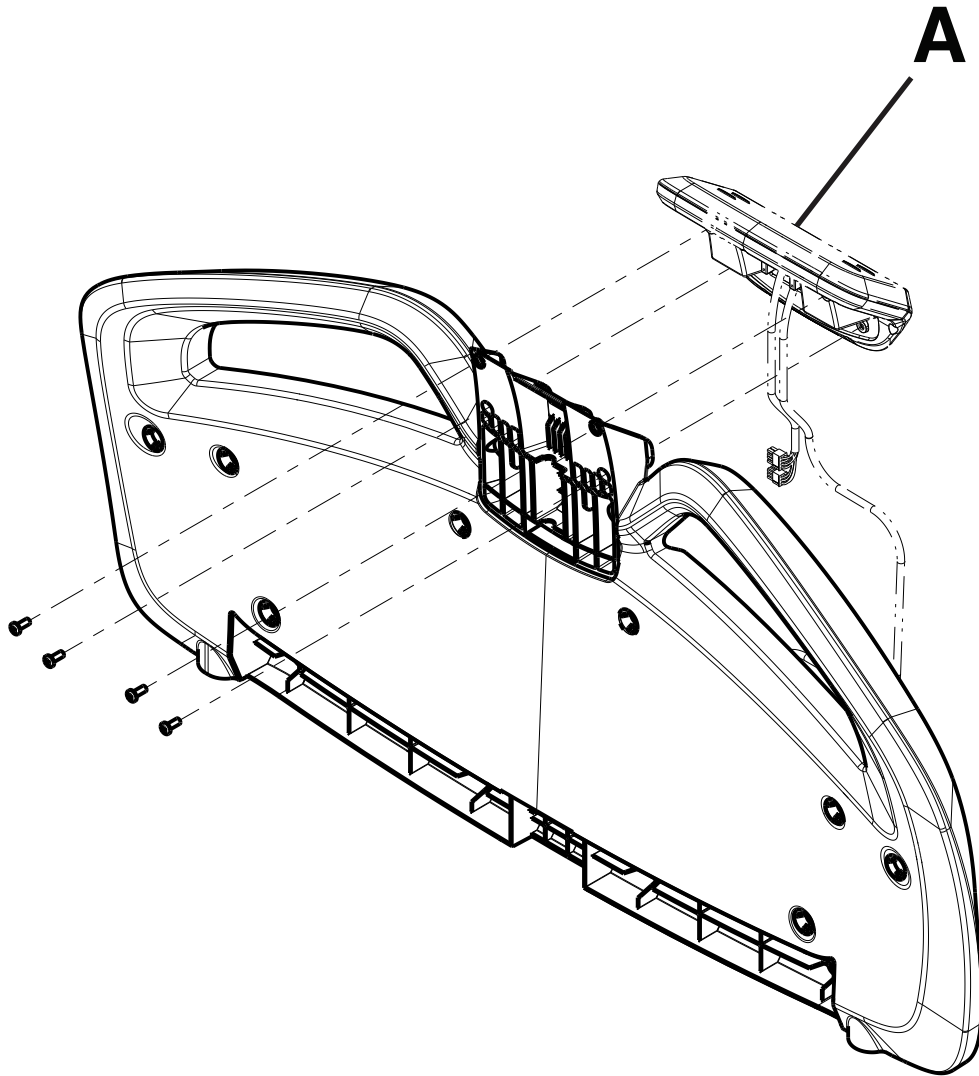
Rev AC



| Item | Recyclable part number | Material code | Important information | Quantity |
|------|------------------------|-----------------------|-----------------------|----------|
| A | 300900110900 | Printed circuit board | Lead | 1 |

300900220001

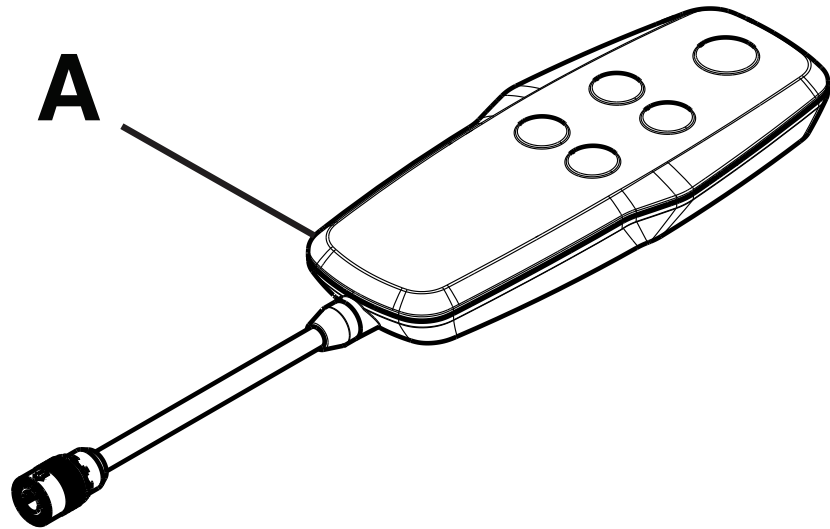
Rev AD



| Item | Recyclable part number | Material code | Important information | Quantity |
|------|--|--|-----------------------|----------|
| A | 300900220900/ 300900220250 300900220910/ 300900220300 | Printed circuit board, liquid crystal display | Lead | 1 |

300900470100

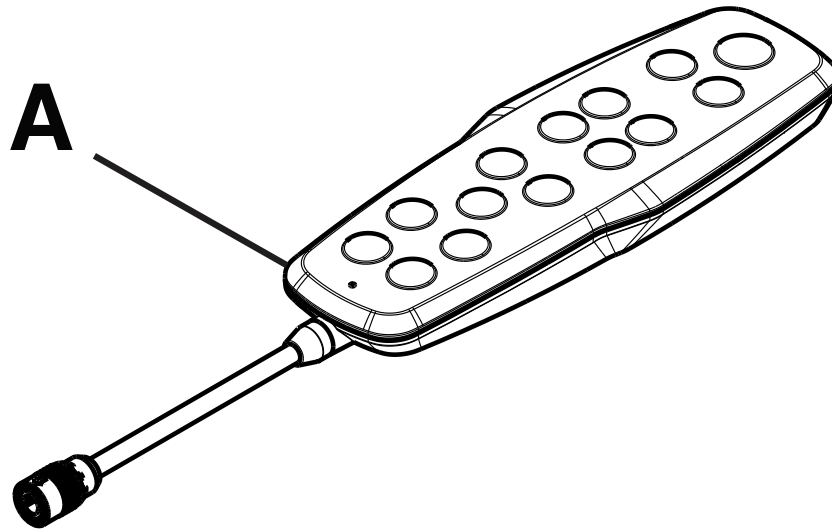
Rev AB



| Item | Recyclable part number | Material code | Important information | Quantity |
|------|------------------------|-----------------------|-----------------------|----------|
| A | 300900470100 | Printed circuit board | | 1 |

300900470200

Rev AB



| Item | Recyclable part number | Material code | Important information | Quantity |
|------|------------------------|-----------------------|-----------------------|----------|
| A | 300900470200 | Printed circuit board | | 1 |

stryker



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