

## Stretcher Chair

### Maintenance Manual

REF 5050

REF 5051





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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.

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### **WARNING**

- Always use assistance from another person when you remove the litter top.
  - Always use assistance from another person when you replace the jack.
  - Always use assistance from another person when you replace the jack pump piston.
  - Always remove the litter and base hood before you service the jacks to avoid the risk of operator injury or product damage.
  - Always lower the jack rod to the lowest position to relieve pressure on the pump piston side of the jack. Failure to lower the jack rod may result in hydraulic fluid loss or product damage when you remove the base plugs.
  - Always make sure that both siderails latch in both the high and low positions to avoid injury to the patient or operator. Make sure that the release handle is lubricated. Make sure that the dowel pin through the sides of the siderail is secure.
  - Always put the product into the proper mode to avoid release of the foot cylinder to avoid the risk of operator injury or product damage.
- 

### **CAUTION**

- Do not let the pump piston come out of the jack to avoid the risk of product damage.
  - Always use **Mobil™ Aero™** HFA hydraulic oil. The use of other types of oil may damage hydraulic units.
-

Pinch points



## 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 Stryker Model 5050 Stretcher Chair and Model 5051 Eye Stretcher Chair have a 10 year expected service life under normal use conditions and with appropriate periodic maintenance.

## Contact information

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

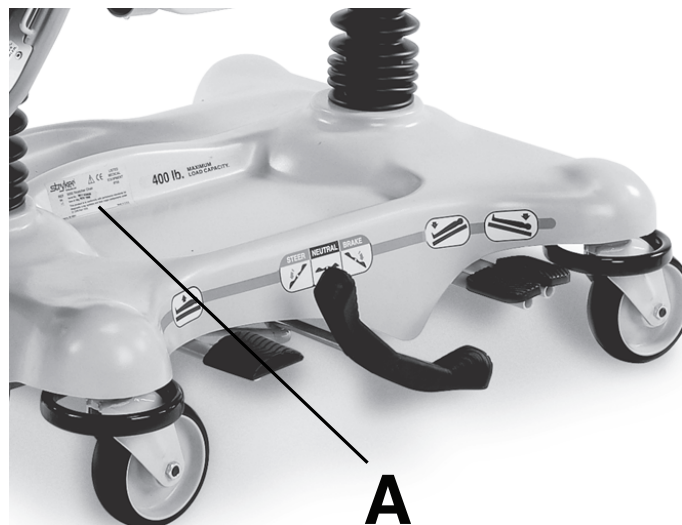
Stryker Medical  
3800 E. Centre Avenue  
Portage, MI 49002  
USA

**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



# Preventive maintenance

Remove 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 welds
- \_\_\_\_\_ All fasteners are secure
- \_\_\_\_\_ Brake mechanism works
- \_\_\_\_\_ Steer function works
- \_\_\_\_\_ Siderails raise, lower, and latch
- \_\_\_\_\_ Casters lock when you apply the brakes
- \_\_\_\_\_ Casters secure and swivel
- \_\_\_\_\_ Casters are free of wax or debris
- \_\_\_\_\_ Fowler backrest raises, lowers, and latches
- \_\_\_\_\_ Skins are not cracked
- \_\_\_\_\_ Trendelenburg/Reverse Trendelenburg raises and lowers from all locations
- \_\_\_\_\_ Foot section adjusts to each position
- \_\_\_\_\_ Enhanced clearance headpiece option adjusts to each position, locks, and releases
- \_\_\_\_\_ Arm boards are intact and work
- \_\_\_\_\_ Arm board support levers are intact and work
- \_\_\_\_\_ IV pole option is intact and raises and lowers to each position
- \_\_\_\_\_ Body restraint options work
- \_\_\_\_\_ Accessories and mounting hardware are in good condition and work
- \_\_\_\_\_ No rips or cracks in mattress cover
- \_\_\_\_\_ **Velcro®** on litter is in good condition; replace if necessary (0381-024-007)
- \_\_\_\_\_ Ground chain is intact
- \_\_\_\_\_ No leaks at hydraulic connections
- \_\_\_\_\_ Hydraulic jacks are secure
- \_\_\_\_\_ Lubricate where required

Product serial number:
Completed by:
Date:



# Service

## Caster maintenance

### Tools required:

- 5/8" combination wrench
- 11/16" combination wrench

### Procedure:

1. Apply the brakes. Push on the product to make sure that the brakes work.
2. Using a 5/8" combination wrench and an 11/16" combination wrench, remove the lock nut (A) from the bolt (B) (Figure 1). Save the lock nut.
3. Support the corner of the product where the caster is being removed.
4. Remove the bolt (B) and the molded wheel (C). Save the bolt and the molded wheel.
5. Clean the bolt, molded wheel, and the inside of the caster horn (D) to remove any dirt or debris.

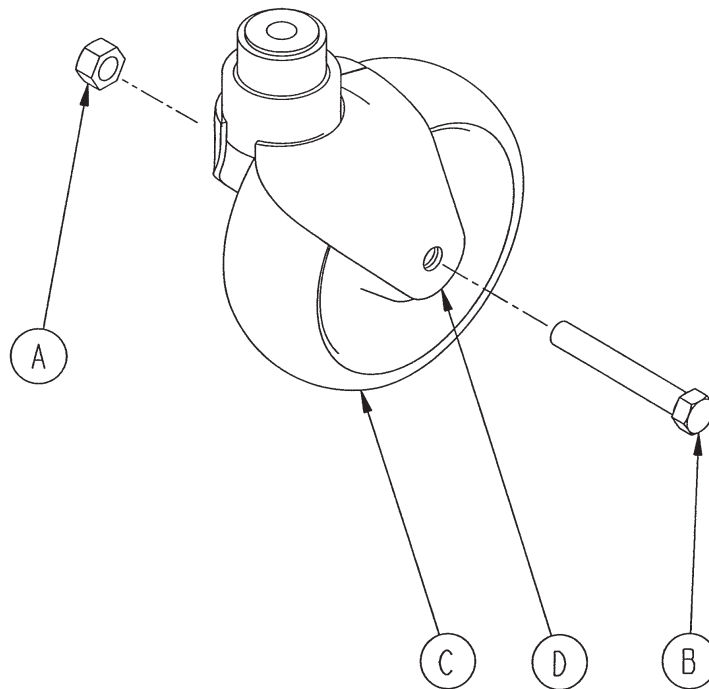


Figure 1 – Caster maintenance

6. Make sure that the bearings in the molded wheel spin with ease.
7. Reverse steps to reinstall.
8. Verify proper operation before you return the product to service.

## Steer-Lock™ spring replacement

### Tools required:

- 3/32" hex wrench
- 11/32" combination wrench
- Bungee cords
- Pliers

### Procedure:

1. Apply the brakes. Push on the product to make sure that the brakes work.
2. Raise the litter to the highest height position.
3. Raise the base hood and support the hood with bungee cords.
4. Using a 3/32" hex wrench and an 11/32" combination wrench, remove the bolt (A), washer (C), and nut (B) that secure the **Steer-Lock** arm (D) to the base (Figure 2). Save all parts.
5. Grasp the extension spring (E) and twist the **Steer-Lock** arm back and forth to remove the **Steer-Lock** arm from the extension spring.

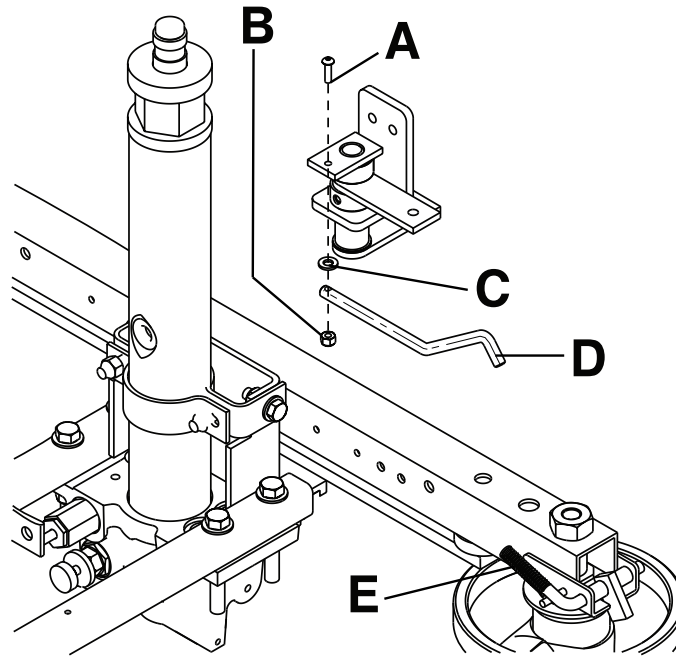


Figure 2 – Steer-Lock spring replacement

6. Using pliers, remove the extension spring from the **Steer-Lock** weldment over the caster. Discard the extension spring.
7. Apply grease to the **Steer-Lock** weldment and install the supplied extension spring onto the **Steer-Lock** weldment.
8. Apply grease to the **Steer-Lock** arm.
9. Hold the extension spring and insert the **Steer-Lock** arm into the extension spring. Push and rotate the **Steer-Lock** arm into the extension spring until the extension spring reaches the bend in the **Steer-Lock** arm.
10. Reconnect the **Steer-Lock** arm to the base.
11. Apply and release the brake and make sure that the **Steer-Lock** latch interlocks with the notch in the locking caster.
12. Remove the bungee cords. Lower the base hood and secure the **Velcro**®.
13. Verify proper operation before you return the product to service.

## Brake/steer pedal replacement

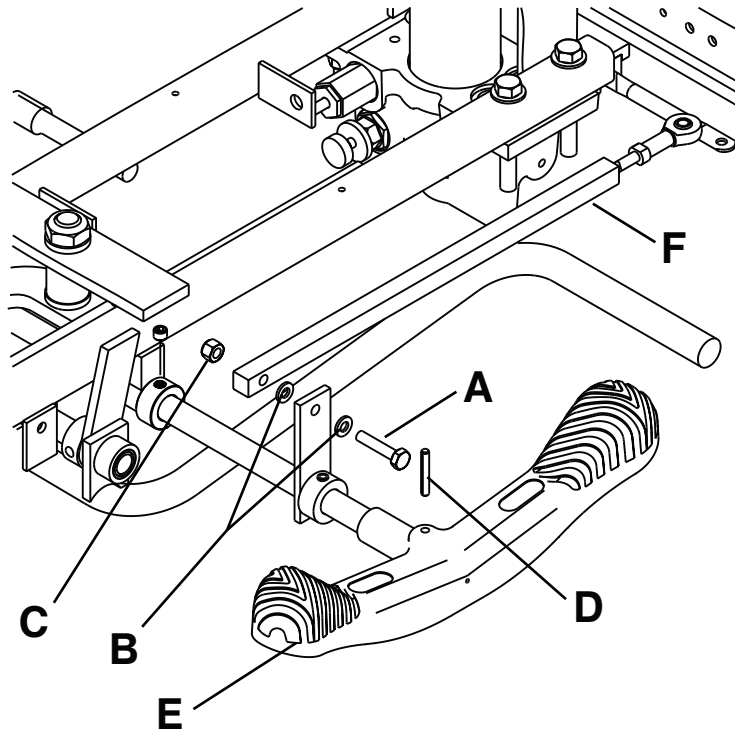
### Tools required:

- (2) 7/16" combination wrench
- 3/16" punch
- Hammer

### Procedure:

1. Remove the litter top. See *Litter top removal* (page 10).

2. Lift the base hood off of the base. Separate the **Velcro®** that secures the hood to the base frame.
3. Using two 7/16" combination wrenches, remove the bolt (A), nut (C), and washers (B) that secure the square brake drive link assembly (F) on the brake actuator on both sides of the base (Figure 3). Save all parts.
4. Lift one end of the base and rotate the brake/steer pedal so the bottom faces up.
5. Using a hammer and 3/16" punch, remove the groove pin (D) from the brake/steer pedal (E) (Figure 3). Make sure that you drive the groove pin out from the bottom of the pedal toward the top of the pedal. Discard the groove pin.



**Figure 3 – Brake/steer pedal replacement**

6. Remove the brake/steer pedal from the brake rod.
 

**Note** - You may need to use a hammer to remove the brake/steer pedal.
7. Lift one end of the base and rotate the brake/steer pedal so that the top faces up.
8. Install the supplied brake/steer pedal on the brake rod.
9. Align the holes in the brake rod to install the supplied groove pin.
10. Using a hammer, drive the groove pin from the top of the brake/steer pedal until it is flush with the top of the brake/steer pedal.
11. Reverse steps to reinstall.
12. Verify proper operation before you return the product to service.

## Brake adjustment

### Tools required:

- 3/32" hex wrench
- Pry bar

### Procedure:

**Note** - Always align the flat side on the thread of the stud with the set screw. Only turn the set screw one full turn.

1. Using a pry bar (A), compress the spring to relieve tension on the stud (Figure 4).
2. Using a 3/32" hex wrench, turn the set screw (B) one full turn counterclockwise to tighten the brake.
3. Using a 3/32" hex wrench, turn the set screw (B) one full turn clockwise to loosen the brake.
4. Verify proper operation before you return the product to service.

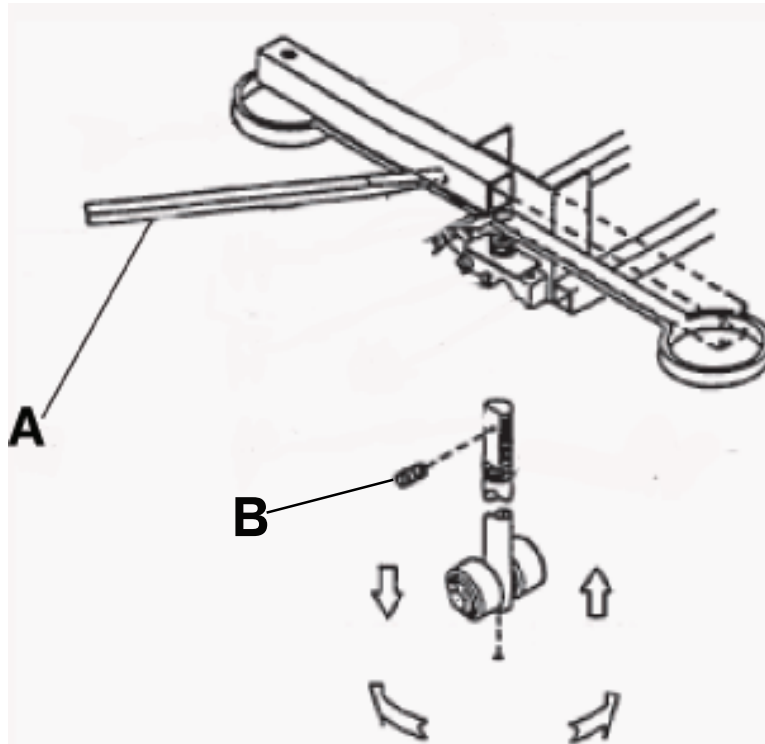


Figure 4 – Brake adjustment

## Litter top removal

### Tools required:

- 3/8" combination wrench

### Procedure:

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**WARNING** - Always use assistance from another person when you remove the litter top.

---

1. Apply the brakes. Push on the product to make sure that the brakes work.
2. Raise the litter to the highest height position.
3. Raise the Fowler backrest.
4. Raise the siderails to the highest position.
5. At the head end and foot end, using a 3/8" combination wrench, remove the bolts that secure the jack support tubes to the jack shafts. Save the bolts
6. Lift the litter off of the base and set the litter aside. Make sure that you do not damage the leg section linkages or other litter components.
7. Reverse steps to reinstall the litter top.
8. Verify proper operation before you return the product to service.

# Jack replacement

## Tools required:

- 3/8" hex wrench
- 1/2" combination wrench
- (2) 7/16" combination wrench
- 1/2" socket
- 3" drive extension
- Slotted screwdriver
- Grease

## Procedure:

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**WARNING** - Always use assistance from another person when you replace the jack.

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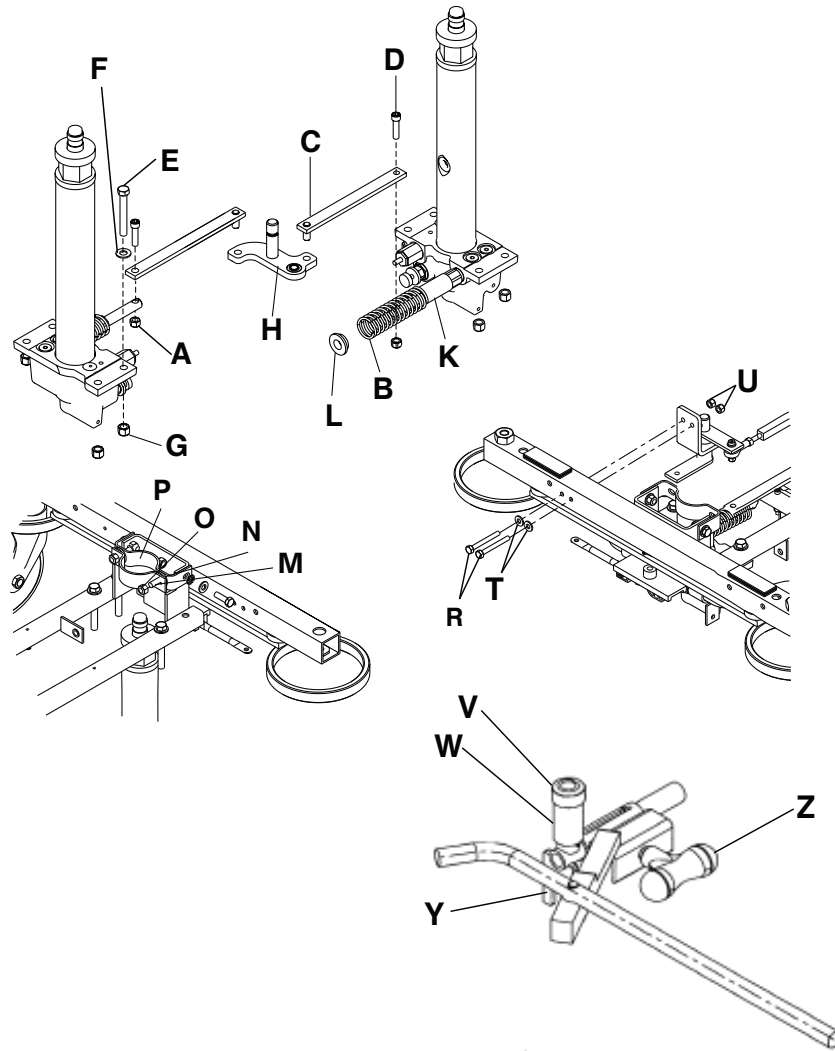
1. Remove the litter top. See *Litter top removal* (page 10).
2. Lower the jack to the lowest position.
3. Lift the base hood off of the base. Separate the **Velcro®** that secures the hood onto the base frame.
4. Using an 3/8" hex wrench and a 1/2" combination wrench, remove the locking nut (A) from under the pump piston (Figure 5). Save the locking nut.
5. Compress the jack spring (B). Using a slotted screwdriver, pry the pump link weldment (C) and socket head cap screw (D) out of the pump cylinder. Save all parts.

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**CAUTION** - Do not let the pump piston come out of the jack to avoid the risk of product damage.

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6. Using a 1/2" socket and a 1/2" combination wrench, remove the two hex head cap screws (M), washers (N), and external tooth lock washers (O) that secure the front jack support clamp to the base frame.
7. Using a 1/2" socket, a 3" drive extension, and a 1/2" combination wrench, remove the four socket head cap screws (E), washers (F), and Nylock hex nuts (G) that secure the jack base to the base frame.
8. Reverse steps 6 and 7 to install the supplied jack base.
9. For the head end jack only, use two 7/16" combination wrenches to remove the two hex head cap screws (R), washers (T), and Nylock hex nuts (U) that secure the brake drive link to the base frame and move it to the side. Save all parts.
10. With the pump pedal in the highest position, insert the pump link weldment (C) into the pump pivot assembly (H). Align the hole in the end of the pump link weldment with the hole in the pump piston on the jack. Pull out or push in on the pump piston assembly as required. Remove the pump link assembly.
11. Apply grease to the spring holder (K). Reinstall the jack spring (B) on the pump piston assembly.
12. Place the spring collar (L) on the end of the jack spring (B).
13. Hook the spring collar (L) with the recessed "U"-shaped plate (Y). Push the entire assembly forward until the assembly stops. Tighten the knob (Z).
14. Align the pump piston with the center of the cutout in the "U"-shaped plate (Y) to avoid pushing the pump piston in while you compress the jack spring (B). Continue to check the alignment while you compress the jack spring (B).
15. Pull back on the fixture handle to compress the jack spring (B) and use your left hand to push the upright (V), with the plastic sleeve (W), to the right. This prevents binding of the dowel pin in the slot of the fixture. Compress the jack spring (B) until the fixture bottoms out.



**Figure 5 – Jack replacement**

16. Using two 7/16" combination wrenches, reinstall the two hex head cap screws (R), washers (T), and Nylock hex nuts (U) (removed in step 9) that secure the brake drive link to the base frame.
17. Keep pressure on the jack spring (B) and use your left hand to place the pump link weldment (C) into the pump pivot assembly (H). Align the other end of the pump link assembly to the hole in the pump piston.
18. With pressure still on the jack spring (B), reinstall the socket head cap screw (D) (removed in step 5) through both the pump link weldment (C) and the pump piston.
19. Partially thread the locking nut (A) (removed in step 4) on the socket head cap screw (D).
20. Using an 3/8" hex wrench and a 1/2" combination wrench, tighten the locking nut (A) on the socket head cap screw (D).
21. Raise the jack to the highest position and lower it again to make sure the jack works.
22. Reinstall the base hood and secure the base hood to the base frame with **Velcro®** (removed in step 3).
23. Reinstall the litter top.
24. Verify proper operation before you return the product to service.

## Jack pump piston replacement

### Tools required:

- 1/2" combination wrench

- 7/8" combination wrench
- (2) 7/16" combination wrench
- 3/8" hex wrench
- Slotted screwdriver
- Needle nose pliers
- Grease

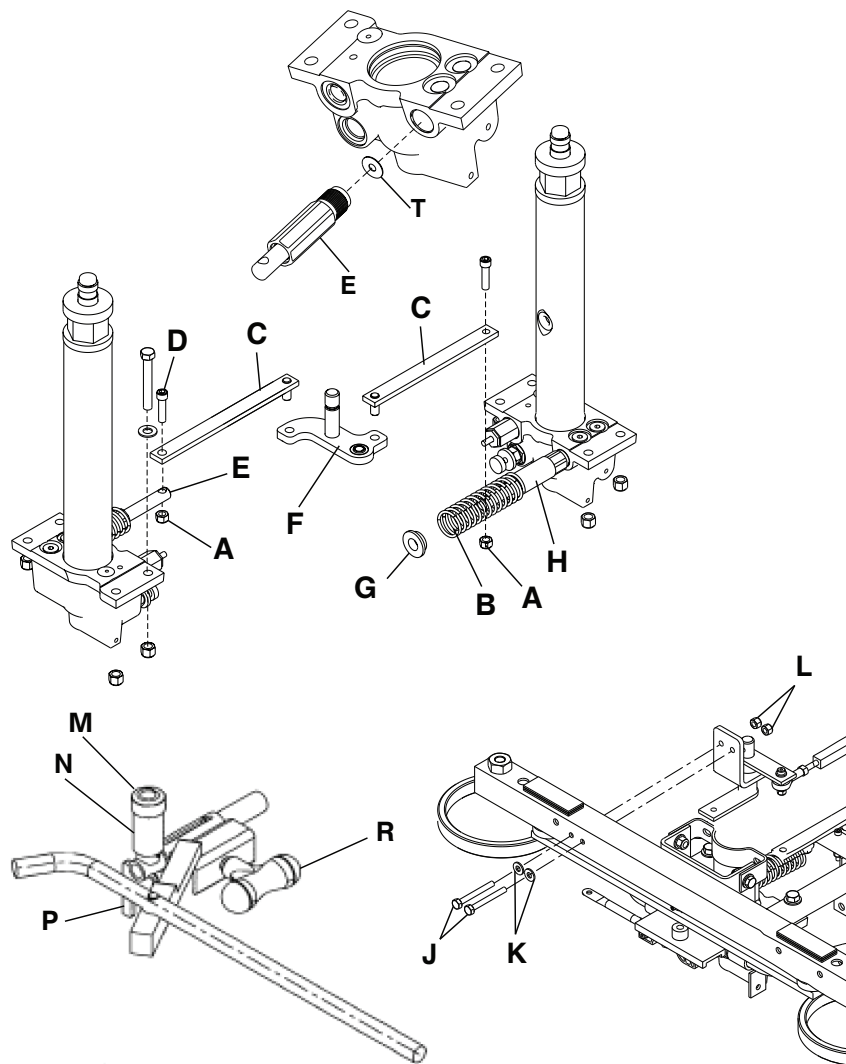
**Procedure:**

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**WARNING** - Always use assistance from another person when you replace the jack pump piston.

---

1. Remove the litter top. See *Litter top removal* (page 10).
2. Lower the jack to the lowest position.
3. Lift the base hood off of the base. Separate the **Velcro®** that secures the hood onto the base frame.
4. Using an 3/8" hex wrench and a 1/2" combination wrench, remove the locking nut (A) from under the pump piston (Figure 6). Save the locking nut.



**Figure 6 – Jack pump piston replacement**

5. Compress the jack spring (B). Using a slotted screwdriver, pry the pump link weldment (C) and socket head cap screw (D) out of the pump cylinder. Save all parts.

---

**CAUTION** - Do not let the pump piston come out of the jack to avoid the risk of product damage.

---

6. Remove the jack spring (B).
7. Using needle nose pliers, remove the spring holder (H).
8. Using a 7/8" combination wrench, remove the pump piston assembly (E).
9. Remove and discard the bottom seal (T) on the jack base.  
**Note** - There may be some hydraulic fluid leakage.
10. Install the supplied bottom seal (T) on the jack base (removed in step 9).
11. Using a 7/8" combination wrench, install the supplied pump piston assembly (E) (removed in step 8).
12. For the head end jack only, using two 7/16" combination wrenches, remove the two hex head cap screws (J), washers (K), and Nylock hex nuts (L) that secure the brake drive link to the base frame. Move the brake drive link to the side.
13. With the pump pedal in the highest position, insert the pump link (C) into the pump pivot assembly (H). Align the hole in the end of the pump link to the hole in the pump piston on the jack. Pull out or push in on the pump piston as required. Remove the pump link.
14. Apply grease to the spring holder (H) and install the spring holder on the jack spring (B) on the pump piston.
15. Place the spring collar (G) on the end of the jack spring (B).
16. Hook the spring collar (G) with the recessed "U" shaped plate (P). Push the entire assembly forward until the assembly stops. Tighten the knob (R).
17. Align the pump piston to the center of the cutout in the "U" shaped plate (P) to avoid pushing the pump piston in when you compress the jack spring (B). Continue to check pump piston alignment while you compress the jack spring (B).
18. Pull back on the fixture handle to compress the jack spring (B) and use your left hand to push the upright (M), with the plastic sleeve (N), to the right. This prevents binding of the dowel pin in the slot of the fixture. Compress the jack spring until the fixture bottoms out.
19. Keep pressure on the jack spring and use your left hand to place the pump link (C) into the pump pivot assembly. Align the other end of the pump link (C) to the hole in the pump piston.
20. Partially thread the locking nut (A) (removed in step 4) on the socket head cap screw (D).
21. Using an 3/8" hex wrench and a 1/2" combination wrench, tighten the locking nut on the socket head cap screw.
22. Raise the jack to the highest position and lower it again to make sure the jack works.
23. Reinstall the base hood and secure the base hood to the base frame with **Velcro**® (removed in step 3).
24. Reinstall the litter top.
25. Verify proper operation before you return the product to service.

## Poppet valve replacement

### Tools required:

- 3/8" drive torque wrench (ft-lb)
- 1/4" hex bit socket
- 1/4" hex wrench
- Small needle nose pliers

### Procedure:

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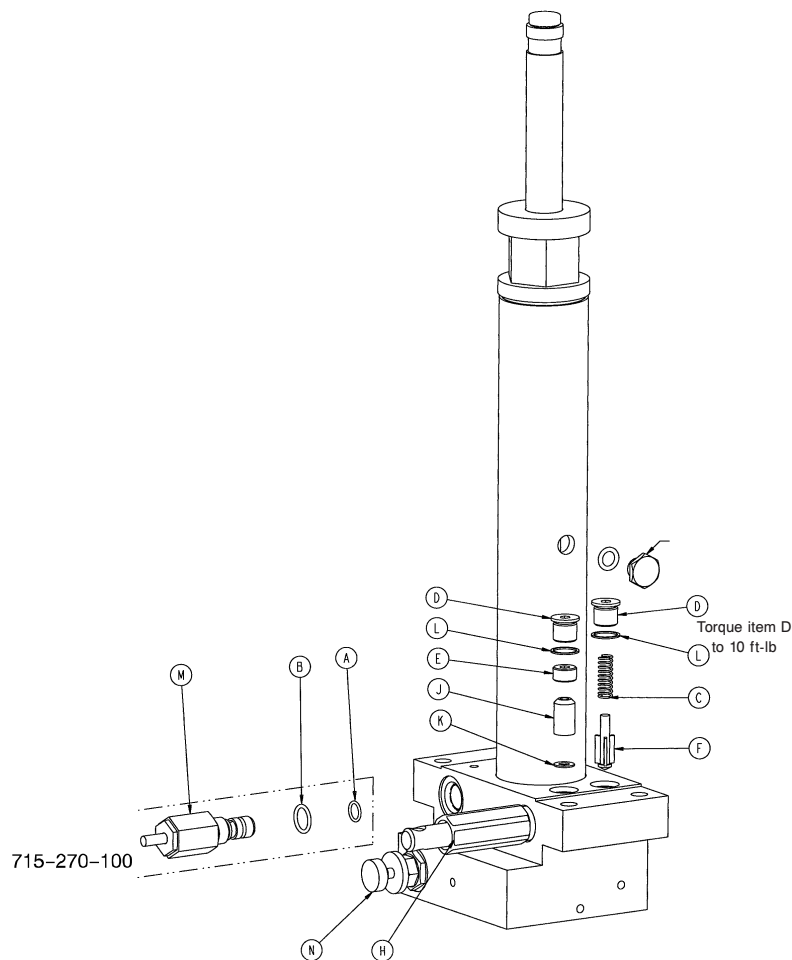
#### WARNING

- Always remove the litter and base hood before you service the jacks to avoid the risk of operator injury or product damage.
  - Always lower the jack rod to the lowest position to relieve pressure on the pump piston side of the jack. Failure to lower the jack rod may result in hydraulic fluid loss or product damage when you remove the base plugs.
-



1. Remove the litter top. See *Litter top removal* (page 10).
2. Lower the jack to the lowest position.
 

**Note** - You must manually lower the actuator while you depress the appropriate release pedal.
3. Lift the base hood off of the base. Separate the **Velcro®** that secures the hood onto the base frame.
4. Using a 1/4" hex wrench, remove the base plug (D) and the seal (L) (Figure 7). Save the base plug and seal.
5. Remove and save the compression spring (C).
6. Using small needle nose pliers, remove and discard the poppet valve (F).
7. Install the supplied poppet valve (F).
8. Reinstall the compression spring (removed in step 5).
9. Using a 1/4" hex bit socket, reinstall the seal (L) and base plug (D) (removed in step 4). Using a 3/8" drive torque wrench, torque the base plug to 10 ft-lb.



**Figure 7 – Poppet valve replacement**

10. Raise the jack to the highest position. Apply weight and make sure that the jack holds the position and there are no hydraulic leaks.
11. Reinstall the base hood and secure the base hood to the base frame with **Velcro®** (removed in step 3).
12. Reinstall the litter top.
13. Verify proper operation before you return the product to service.

## Check valve replacement

### Tools required:

- 3/8" drive torque wrench (ft-lb)
- 1/4" hex bit socket
- 1/4" hex wrench
- 1/2" diameter rod
- Stiff wire (bent, with pointed end)

### Procedure:

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#### WARNING

- Always remove the litter and base hood before you service the jacks to avoid the risk of operator injury or product damage.
  - Always lower the jack rod to the lowest position to relieve pressure on the pump piston side of the jack. Failure to lower the jack rod may result in hydraulic fluid loss or product damage when you remove the base plugs.
- 

1. Remove the litter top. See *Litter top removal* (page 10).
2. Lower the jack to the lowest position.  
**Note** - You must manually lower the actuator while you depress the appropriate release pedal.
3. Lift the base hood off of the base. Separate the **Velcro**® that secures the hood to the base frame.
4. Using a 1/4" hex wrench, remove the base plug (D) and the seal (L) (Figure 7). Save the base plug and seal.
5. Using a 1/4" hex wrench, remove the valve plug (E). Save the valve plug.
6. Using a stiff wire that is bent and pointed at the end, remove and discard the check valve (J) and the seal (K).
7. Install the supplied seal (K). Use a 1/2" diameter rod to make sure that the seal is flat to the bottom of the hole.
8. Install the supplied check valve (J) with the beveled end facing up.
9. Using a 1/4" hex bit socket, reinstall the valve plug (E) (removed in step 5). Using a 3/8" drive torque wrench, torque the valve plug to 10 ft-lb.
10. Using a 1/4" hex bit socket, reinstall the seal (L) and the base plug (D) (removed in step 4). Using a 3/8" drive torque wrench, torque the base plug to 10 ft-lb.
11. Verify proper operation of the jack.
12. Press down on the jack and make sure that the jack holds position.
13. Make sure that there are no hydraulic leaks.
14. Reinstall the base hood and secure the base hood to the base frame with **Velcro**® (removed in step 3).
15. Reinstall the litter top.
16. Verify proper operation before you return the product to service.

## Checking hydraulic fluid level

### Tools required:

- 3/4" combination wrench

### Procedure:

---

**CAUTION** - Always use **Mobil™ Aero™** HFA hydraulic oil. The use of other types of oil may damage hydraulic units.

---

1. Remove the litter top (*Litter top removal* (page 10)).
2. Lower the jack to the lowest position.

**Note** - You must manually lower the actuator while you depress the appropriate release pedal.

3. Lift the base hood off of the base. Separate the **Velcro**® that secures the hood onto the base frame.
4. Make sure that there are no hydraulic leaks. If any leaks are observed, replace the jack. See *Jack replacement* (page 11).
5. Using a 3/4" combination wrench, turn the fill plug located on the side of the reservoir counterclockwise to vent excess system pressure. Remove and save the fill plug.
6. Make sure that the hydraulic fluid is visible at the bottom of the hole. If the fluid is not visible, fill with **Mobil™ Aero™** HFA hydraulic oil (2020-070-475) until the fluid is visible at the bottom of the fill hole. Replace the fill plug (removed in step 5).
7. Reinstall the base hood and secure the base hood to the base frame with **Velcro**® (removed in step 3).
8. Reinstall the litter top.
9. Verify proper operation before you return the product to service.

## Adjustable pressure compensated (P.C.) valve replacement

### Tools required:

- 13/16" combination wrench

### Procedure:

---

**WARNING** - Always lower the jack rod to the lowest position to relieve pressure on the pump piston side of the jack. Failure to lower the jack rod may result in hydraulic fluid loss or product damage when you remove the base plugs.

---

1. Remove the litter top. See *Litter top removal* (page 10).
2. Lower the jack to the lowest position.

**Note** - You must manually lower the actuator while you depress the appropriate release pedal.

3. Lift the base hood off of the base. Separate the **Velcro**® that secures the hood to the base frame.
4. Using a 13/16" combination wrench, remove and discard the adjustable P.C. valve (N) (Figure 7).
5. Check for any contaminants in the valve and in the jack base.
6. Install the supplied P.C. valve. Moisten the O-ring seal with hydraulic fluid to make sure the O-ring seals.
7. Tighten the valve by hand and then use a 13/16" combination wrench to tighten an additional 1/8" to 1/4" turn. Do not overtighten the P.C. valve or damage may occur to the O-ring seal.
8. Raise the jack to the highest position and lower it again to make sure that the jack works.
9. Verify that there are no hydraulic leaks.
10. Reinstall the base hood and secure the base hood to the base frame with **Velcro**® (removed in step 3).
11. Reinstall the litter top.
12. Verify proper operation before you return the product to service.

## Jack descent rate adjustment

### Tools required:

- Bungee cords

### Procedure:

1. Raise the litter to the highest height position.
2. Using bungee cords, raise and support the base hood.
3. Locate the adjustable descent valve on the base of the jack.

**Note** - The valve has a blue knob on the end.

4. Loosen the silver locking ring. Turn the blue knob clockwise to increase the rate of litter descent. Turn the blue knob counterclockwise to decrease the rate of descent.
5. Adjust the valve so that the foot end jack descends slightly faster than the head end jack.

**Note** - The jack descent rate is preset to drop the foot end 3 to 7 seconds faster than the head end. It is recommended that the foot end drops faster to reduce the risk of patient disorientation.

6. Reinstall the base hood and secure the base hood to the base frame with **Velcro®**.
7. Verify proper operation before you return the product to service.

## Base lubrication points

**Tools required:**

- None

**Procedure:**

Grease areas as indicated (A) (Figure 8).

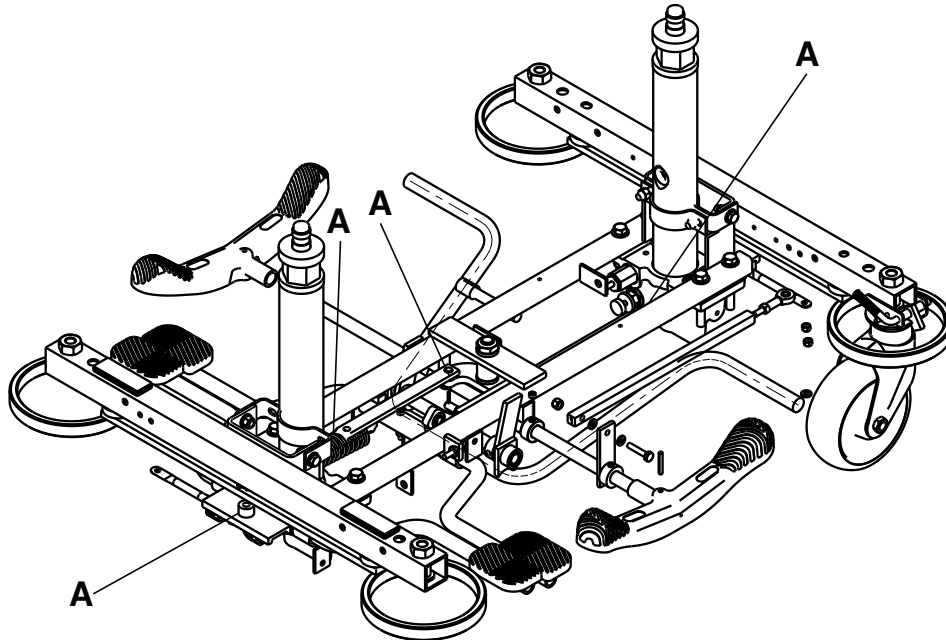


Figure 8 – Base lubrication points

## Siderail replacement (transfer/non-transfer)

**Tools required:**

- 3/16" hex wrench
- 1/4" punch
- Hammer
- **Loctite 242**

**Procedure:**

1. Apply the brakes. Push on the product to make sure that the brakes work.
2. Raise the litter to the highest height position.
3. Raise the Fowler backrest.

4. Place the siderail in the horizontal position and support the siderail from underneath.
5. Using a 1/4" punch and a hammer, drive out the pin (A) that secures the siderail (B) to the latch pivot shaft (G) (Figure 9).
6. Pull back on the red release knob (M) and remove the knob assembly with the latch pivot shaft (G) (Figure 9).
7. Pull the siderail away from the litter frame. Lift the siderail off of the pivot hub at the foot end of the midsection. Save the latch housing insert.
8. Place the latch housing insert into the main tube of the supplied siderail. Rotate the insert so that the single hole in the face of the insert is upright and points to the top of the siderail. Maintain this orientation throughout the siderail installation.
9. Place the siderail on the pivot hub at the foot end of the midsection. Swing the siderail into place in the upright position.
10. Using a 3/16" hex wrench, remove the button head cap screw (K) from the end of the red release knob (M). Disassemble the washers (J and L), spring (H), and the latch pivot shaft (G) (Figure 9).
11. Insert the latch pivot shaft through the hole in the litter frame and into the latch housing insert. Orient the latch pivot shaft so that the holes in the siderail tube, latch housing insert, and the latch pivot shaft are aligned. Maintain this alignment throughout the siderail installation.
12. Using a 1/4" punch, hold all three parts in alignment. Insert the pin from the outside of the siderail to the inside of the siderail with the siderail in the upright position.
13. From below the siderail, remove the punch.
14. Insert the dowel pin from the top of the siderail. Using a hammer, drive the dowel pin until the dowel pin is flush with the top surface of the siderail. Then use the 1/4" punch to drive the pin slightly deeper.  
  
**Note** - The pin should be approximately the same depth on both sides of the siderail. Make sure that you do not drive the dowel pin out the other side of the siderail.
15. With the siderail in the highest position, replace the red release knob (M) over the shaft and into the locking holes.
16. Make sure that the siderail will lock in both the high and low positions. Make sure that the low position locks the siderail at a slight inward angle (not outward).  
  
**Note** - If the siderail will not lock in the low position, rotate the red release knob (M) 180 degrees. Repeat step 16.
17. Replace the spring (H) and the washers (J and L) and the latch pivot shaft (G) inside the end of the red release knob (M).

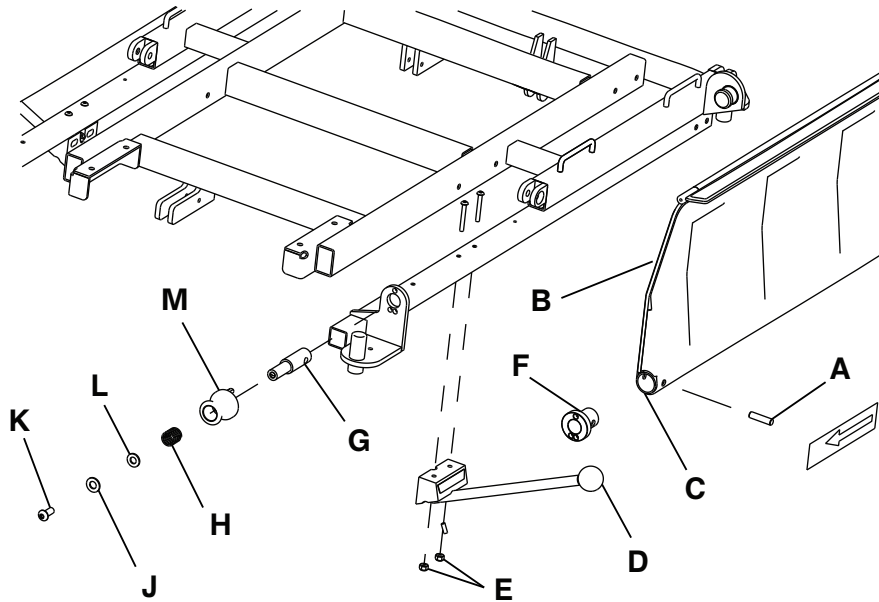


Figure 9 – Siderail replacement

18. Apply **Loctite 242** to the button head cap screw (K). Install the screw into the end of the red release knob (M) and tighten the screw (Figure 9).
19. Verify proper operation before you return the product to service.

## Siderail adjustment

### Tools required:

- 3/16" hex wrench
- **Loctite 242**

### Procedure:

---

**WARNING** - Always make sure that both siderails latch in both the high and low positions to avoid injury to the patient or operator. Make sure that the release handle is lubricated. Make sure that the dowel pin through the sides of the siderail is secure.

---

If the siderail will not latch in place:

1. Make sure that the red knob (M) is seated fully when released when the siderail is in both the high and low positions (Figure 9).
2. If the red knob is not fully seated, use a 3/16" hex wrench to remove the button head cap screw (K) in the end of the red knob.
3. Apply **Loctite 242** to the end of the screw.
4. Replace the button head cap screw (K) in the end of the knob. Using a 3/16" hex wrench, tighten the button head cap screw.
5. Verify proper operation before you return the product to service.

## Siderail release knob replacement

### Tools required:

- 3/16" hex wrench
- **Loctite 242**

## Procedure:

**WARNING** - Always make sure that both siderails latch in both the high and low positions to avoid injury to the patient or operator. Make sure that the release handle is lubricated. Make sure that the dowel pin through the sides of the siderail is secure.

1. Using a 3/16" hex wrench, remove the button head cap screw (K), washers (J and L), and spring (H) in the end of the red release knob (M) (Figure 10).

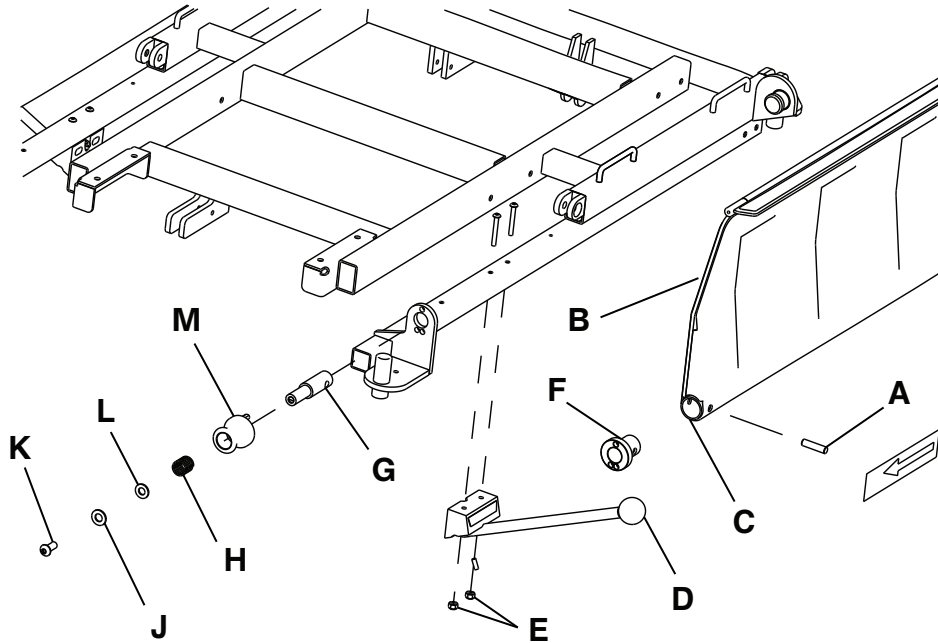


Figure 10 – Siderail adjustment

2. With one hand, hold the siderail to keep the siderail from swinging. With the other hand, remove the release knob assembly.
3. Apply grease to the release knob shaft (G).
4. Inspect the locking pin holes to make sure that there are no obstructions.
5. Install the supplied knob. Push the knob all the way in so that the siderail latches in the high position.
6. Pull the release knob back and put the siderail in the low position. Push the release knob assembly back in and make sure that the release knob assembly latches in the low position. If the release knob assembly does not latch, pull out and rotate the release knob assembly 180 degrees. Make sure that the siderail latches in both the high and low positions.
7. Install the compression spring (H) and washers (J and L) (removed in step 1).
8. Apply **Loctite 242** to the end of the button head cap screw (K) (removed in step 1). Replace the button head cap screw in the end of the release knob assembly. Using a 3/16" hex wrench, tighten the button head cap screw.
9. Verify proper operation before you return the product to service.

## Stationary push bar replacement, Model 5050

### Tools required:

- (2) 9/16" combination wrench
- 3/16" hex wrench
- 3/32" hex wrench
- 1/2" wrench

## Procedure:

1. Apply the brakes. Push on the product to make sure that the brakes work.
2. Using a 3/32" hex wrench, remove the hex head cap screws from the covers at the end of the push bar. Remove the covers and set aside. Save the screws.
3. Using a 3/16" hex wrench and the 1/2" wrench, remove the button head screw, Nylock hex nut, and washers on both sides of the push bar. Save all parts.

**Note** - After you remove the second screw, the push bar will rotate down and hang freely.

4. Using two 9/16" combination wrenches, remove the 3/8" hex nut, centerlock hex nut, and washers on both sides of the push bar. Remove and discard the push bar. Save the bolt, centerlock hex nut, and washers.
5. Reverse steps to install the supplied push bar.
6. Verify proper operation before you return the product to service.

## Adjustable push bar replacement

### Tools required:

- (2) 9/16" combination wrench
- (2) 1/8" hex wrench
- 3/32" hex wrench
- Loctite 222

### Procedure:

1. Apply the brakes. Push on the product to make sure that the brakes work.
2. Using a 3/32" hex wrench, remove the button head cap screws from the covers at the end of the left side of the push bar. Remove the covers. Save the covers and screws.
3. Using two 9/16" combination wrenches, remove the centerlock hex nut from the left side of the adjustable push bar.
4. Using two 1/8" hex wrenches, remove one of the button head cap screws from the side of the red push bar release handle. Save the screw.

**Note** - Remove only one screw.

5. Support the push bar to keep the push bar from swinging down.
6. Using a 1/8" hex wrench, push out and remove the push bar position locking pin from the center of the red release knob.
7. While you support the push bar, slide the red release knob away from the Fowler backrest as far as possible.
8. Using a 1/8" hex wrench, push out and remove the 3/8" push bar pivot pin and washers. Save the push bar pivot pin and washers.
9. Remove the 3/8" hex head screw and washers from the left side pivot. Pull straight back to remove the adjustable push bar frame. Save the hex head screw and washers.
10. Install the red release knob on the supplied push bar and slide the red release knob back as far as possible. Make sure that the red release knob is on the side with one through hole and slot (not the side with two through holes).
11. Insert the compression spring into the end of the push bar on the same side as the red release knob.
12. Insert a 1/8" hex wrench into the slot in the top of the right side of the push bar. Push the wrench back to compress the spring.
13. While you compress the spring, insert the push bar lock pin through the slot in the right side of the push bar to keep the spring compressed.
14. Put the replacement push bar in place. Replace the push bar pivot pin and washers on the right side pivot. Then replace the hex head screw and washers on the left side pivot.
15. Position the adjustable push bar to the down position (90 degrees to the Fowler backrest). Allow the lock pin to hold the push bar in place.



16. Support the push bar to keep the push bar from swinging down and remove the push bar lock pin.
17. Push the red release knob up and into place. Make sure that the release label is on the outside of the product.
18. Use one hand to compress the spring so the spring is out of the way. Use the other hand, to insert the push bar lock pin through the hole in the side of the red release knob and through the slot in the push bar until the push bar lock pin is flush with the other side of the red release knob.
19. Release the compression spring. Allow the push bar lock pin to drop into place.
20. Replace the centerlock hex nut on the left side pivot.
21. Using two 9/16" combination wrenches, tighten the centerlock hex nut so that the push bar moves freely.
22. Apply **Loctite 222** to the button head cap screws for the push bar lock pin. Using a 1/8" hex wrench, tighten the button head cap screws.
23. Make sure that the push bar rotates with ease when released and locks in both the up and down positions.
24. Replace the covers and button head cap screws (removed in step 2) on the left side of the push bar. Using a 3/32" hex wrench, tighten the screws.
25. Verify proper operation before you return the product to service.

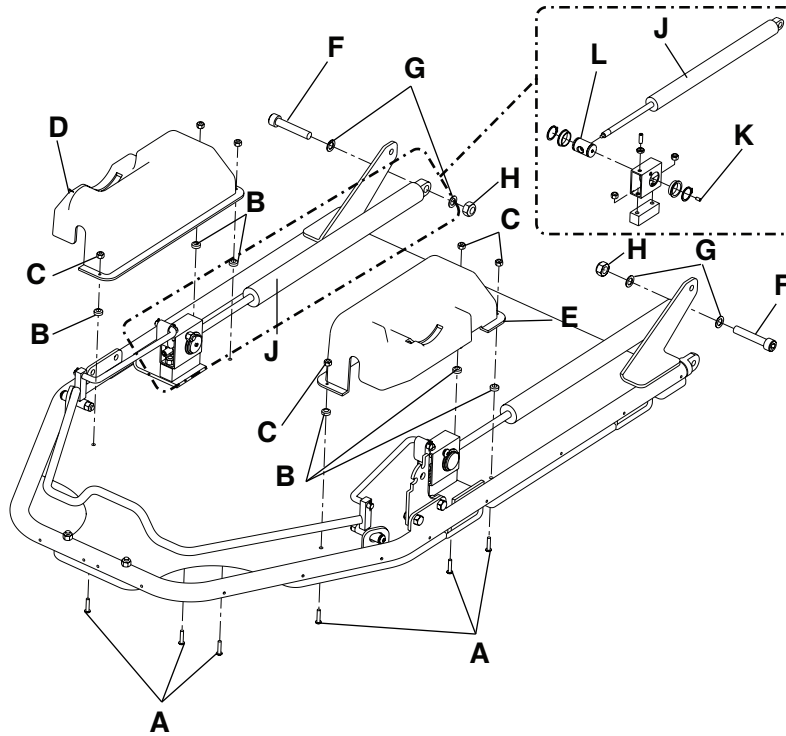
## **Pneumatic Fowler backrest adjustment, Model 5050**

### **Tools required:**

- 3/32" hex wrench
- 5/16" hex wrench
- 3/8" combination wrench
- 5/8" combination wrench
- **Loctite 222**

### **Procedure:**

1. Apply the brakes. Push on the product to make sure that the brakes work.
2. Raise the litter to the highest height position.
3. Raise the Fowler backrest to 70 degrees.
4. Remove the push bar. See *Stationary push bar replacement, Model 5050* (page 21) or *Adjustable push bar replacement* (page 22).
5. Using a 3/32" hex wrench and a 3/8" combination wrench, remove the button head cap screws (A), fiberlock hex nuts (C), and spacers (B) that secure the Fowler backrest covers (D and E) located under the Fowler backrest skin. Remove the Fowler backrest covers (D and E) (Figure 11).



**Figure 11 – Pneumatic Fowler backrest adjustment**

6. Using a 3/32" hex wrench, remove the set screws (K) located in the center of the yokes (L).
7. Using a 5/8" combination wrench and a 5/16" hex wrench, remove the socket head cap screws (F), flat washers (G), and nylock hex nuts (H) that secure the gas cylinders (J) to the litter frame. Save all parts.
8. To adjust the Fowler backrest gas cylinder, turn the gas spring 1 to 2 turns counterclockwise if the Fowler backrest gas cylinder will not move. Turn the gas spring 1 to 2 turns clockwise if the Fowler backrest gas cylinder will not hold its position.
9. Using a 5/8" combination wrench and a 5/16" hex wrench, reinstall the socket head cap screws (F), flat washers (G), and nylock hex nuts (H) (removed in step 7). Verify proper Fowler backrest gas cylinder adjustment. Lower the Fowler backrest approximately 10 to 20 degrees. Release the handle and apply weight. If the Fowler backrest gas cylinder will not lower or will not hold its position when weight is applied, repeat step 8.
10. When you adjust the Fowler backrest gas cylinder, reverse steps 4 through 7 to reinstall the parts. Apply **Loctite 222** to the threads on the set screws (L) before you reinstall the set screws.
11. Verify proper operation before you return the product to service.

## Pneumatic Fowler backrest adjustment, Model 5051

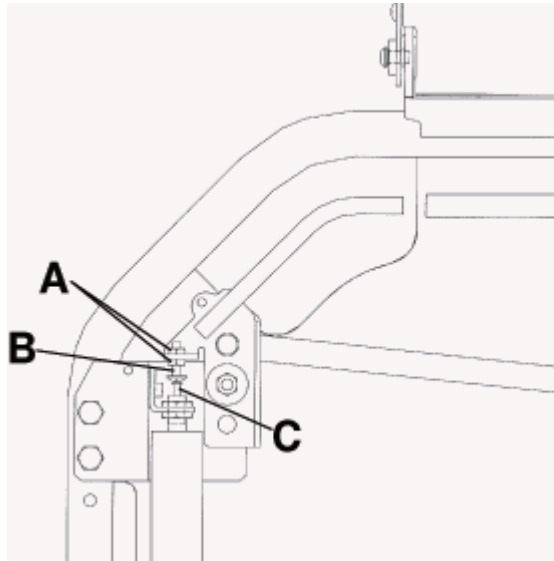
### Tools required:

- (2) 3/8" combination wrench

### Procedure:

1. Apply the brakes. Push on the product to make sure that the brakes work.
2. Raise the litter to the highest height position.
3. Raise the Fowler backrest to 70 degrees or higher.
4. Using two 3/8" combination wrenches, loosen the two nuts (A) on the adjustment screw (B) (Figure 12). If the Fowler backrest does not hold its position, turn the adjustment screw up, away from the release pin on the pneumatic cylinder (C). If the Fowler backrest does not release, turn the adjustment screw down toward the release pin on the pneumatic cylinder.

5. Tighten the two nuts (A).



**Figure 12 – 5051 Pneumatic Fowler backrest adjustment**

6. Verify both sides of the Fowler backrest lower equally:
  - a. Raise the Fowler backrest to the highest position.
  - b. Squeeze both release handles and pull down on both sides of the Fowler backrest.
  - c. If the pneumatic cylinders still do not release evenly, repeat step 4.
7. Verify proper operation before you return the product to service.

## **Pneumatic cylinder replacement, Model 5051**

### **Tools required:**

- (2) 17 mm combination wrench
- 11/16" combination wrench
- 5/16" hex wrench

### **Procedure:**

1. Apply the brakes. Push on the product to make sure that the brakes work.
2. Raise the litter to the highest height position.
3. Raise the Fowler backrest to 70 degrees or higher.
4. Using two 17 mm combination wrenches, remove the nuts (A) from the top of the pneumatic cylinder (Figure 13). Save the nuts.
5. Using a 5/16" hex wrench and an 11/16" combination wrench, remove the nut (B) and bolt (C) from the bottom of the cylinder. Save the nut and bolt.
6. Raise the fowler to 90 degrees and remove the cylinder.
7. Press down on the release pin on the replacement cylinder to fully extend the cylinder.
8. Using two 17 mm combination wrenches, reinstall the nuts (A) (removed in step 4).
9. Using a 5/16" hex wrench and an 11/16" combination wrench, reinstall the nut (B) and bolt (C) on the bottom of the cylinder (removed in step 5).

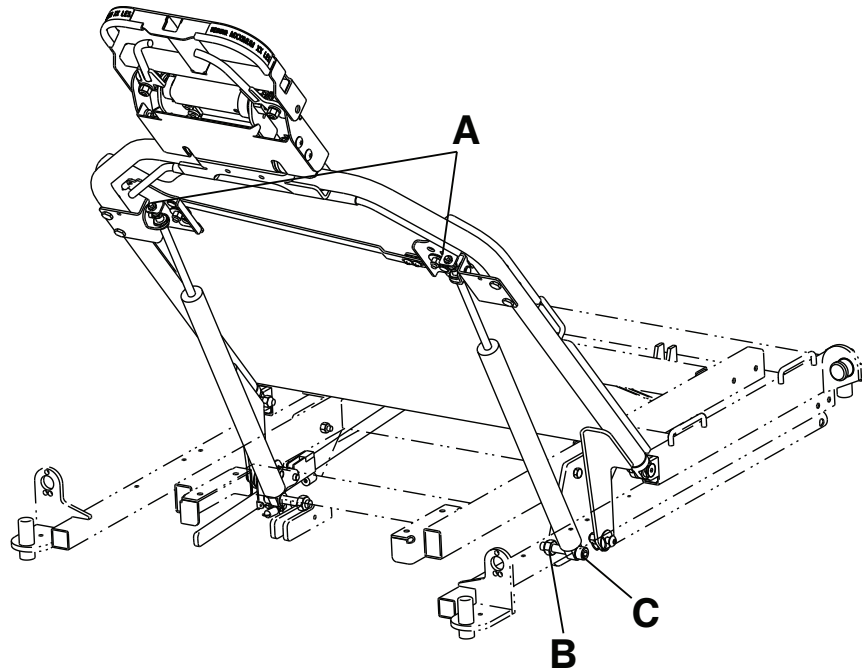


Figure 13 – 5051 pneumatic cylinder replacement

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

## Pneumatic Fowler backrest release handle adjustment, Model 5051

### Tools required:

- #2 Phillips screwdriver

### Procedure:

1. Apply the brakes. Push on the product to make sure that the brakes work.
2. Using a #2 Phillips screwdriver, loosen the two screws (B) on the handle linkage. Release the handle tension spring (A) on the patient left side (Figure 14).

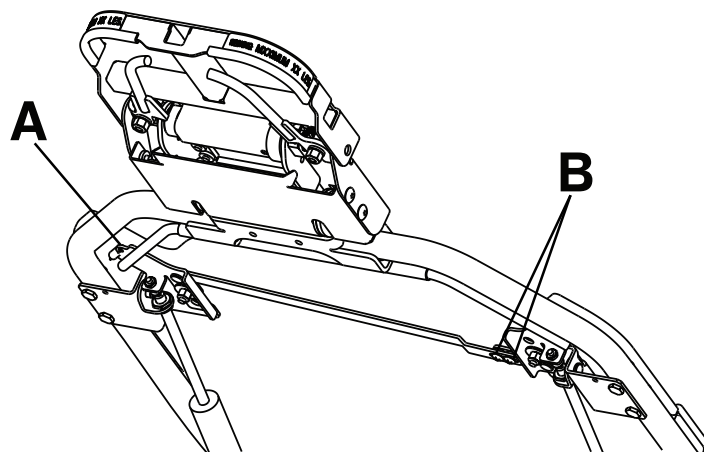


Figure 14 – 5051 Pneumatic Fowler backrest release handle adjustment

3. Adjust the handles so there is a 3/4" gap between the outer Fowler backrest frame and the handle.
4. Using a #2 Phillips screwdriver, tighten the screws on the handle linkage and reattach the spring.

5. Adjust the pneumatic cylinders, if necessary. See *Pneumatic Fowler backrest adjustment, Model 5051* (page 24).
6. Verify proper operation before you return the product to service.

## Footrest pan replacement (for stationary or adjustable footrest)

### Tools required:

- 5/32" hex wrench
- 7/16" combination wrench

### Procedure:

1. Apply the brakes. Push on the product to make sure that the brakes work.
2. Raise the litter to the highest height position.
3. Lower the Fowler backrest to the flat position.
4. Remove the footrest pad.
5. Using a 5/32" hex wrench and a 7/16" combination wrench, remove the Nylock lock nut (B), bolt (A), and washers (C) from both of the footrest pivots located under the foot section (Figure 15). Save all parts.
6. Lift up and remove the footrest pan and discard.
7. Lay the supplied footrest pan flat on the foot section of the litter. Make sure that the L-brackets from the pan fit under the litter surface.
8. For stationary footrests only, align the holes in the footrest pan L-brackets with the round pivots (D) on the foot section frame.
9. Reverse steps to reinstall the Nylock lock nut (B), bolt (A), and washers (C) (removed in step 5) on both footrest pivots.

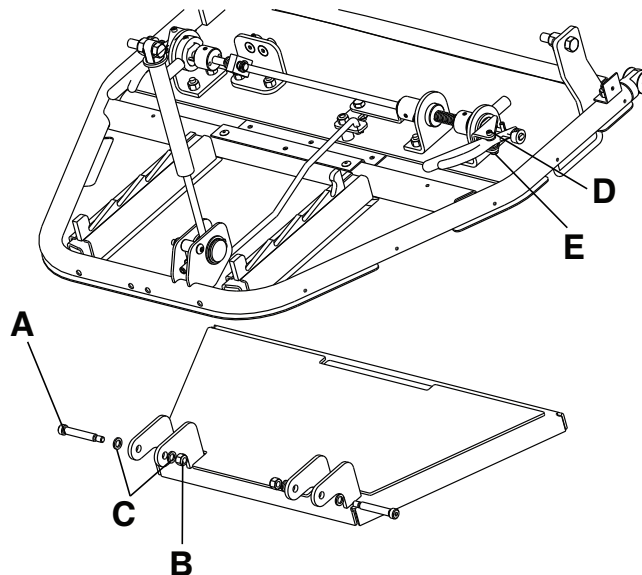


Figure 15 – Footrest pan removal

10. Replace the footrest pad and **Velcro®**, if necessary.
11. Verify proper operation before you return the product to service.

## Dependent leg section rigid link replacement

### Tools required:

- (2) 9/16" combination wrench

- 1/2" combination wrench
- 3/16" hex wrench

**Procedure:**

1. Apply the brakes. Push on the product to make sure that the brakes work.
2. Raise the litter to the highest height position.
3. Lower the Fowler backrest to the flat position.
4. Using two 9/16" combination wrenches, remove the nylon lock nut, hex head bolt, and nylon washers at the foot end of the rigid connecting link. Save all parts.
5. Using 1/2" combination wrench and a 3/16" hex wrench, remove the nylon lock nut, bolt, and washers at the head end of the rigid connecting link. Save all parts. Remove and discard the rigid connecting link.
6. Reverse steps to install the supplied rigid connecting link.
7. Raise and lower the Fowler backrest and make sure that the rigid connecting link allows the foot section to follow.
8. Verify proper operation before you return the product to service.

## Dependent leg section frame replacement

**Tools required:**

- (2) 9/16" combination wrench
- 3/16" hex wrench
- 1/2" combination wrench

**Procedure:**

1. Raise the litter to the highest height position.
2. Put the litter in the flat position.
3. Remove the mattress and set aside.
4. Using two 9/16" combination wrenches, remove the nylon lock nut, hex head bolt, and nylon washers at the foot end of the rigid connecting link. Save all parts.
5. Using 1/2" combination wrench and a 3/16" hex wrench, remove the nylon lock nut, bolt, and washers for the leg section frame pivot. Save all parts. Remove and discard the leg section frame.
6. Reverse step 5 to install the replacement leg section frame.
7. Reverse step 4 to reconnect the rigid connecting links to the leg section.
8. Raise and lower the Fowler backrest to make sure that the foot section follows.
9. Replace the mattress.
10. Verify proper operation before you return the product to service.

## Leg section cylinder adjustment

**Tools required:**

- 3/32" hex wrench
- 5/8" combination wrench
- 5/16" hex wrench
- **Loctite 222**

**Procedure:**

1. Apply the brakes. Push on the product to make sure that the brakes work.

2. Raise the litter to the highest height position.
3. Put the Fowler backrest in the flat position.
4. Put the leg section in the highest height position.
5. Lower the head end into a Trendelenburg position to access the cylinder.
6. Make sure that the independent leg section handles point toward the head end of the product.
7. Using a 3/32" hex wrench, remove the set screw (B), from the center of the yoke (A) (Figure 16). Save the set screw.
8. Using a 5/16" hex wrench and a 5/8" combination wrench, remove the pivot bolt (C), washer (D), and hex nut (F), that secure the cylinder (E) to the leg section frame. Save all parts.
9. To adjust the leg section, turn the gas spring one to two turns counterclockwise if the leg section will not move. Turn the gas spring one to two turns clockwise if the leg section will not hold its position.
10. Replace the pivot bolt (removed in step 8) and test the leg section actuation:
  - a. Rotate the handles on the leg section toward the foot end of the product.
  - b. Pull outward to move the leg section. Release the leg section and make sure that the leg section secures its position. If the leg section will not move or does not hold its position, remove the pivot bolt and repeat step 9.
11. Using a 5/16" hex wrench and 5/8" combination wrench, reinstall the washer (D) and hex nut (F) (removed in step 8) to secure the pivot bolt (C) in place.

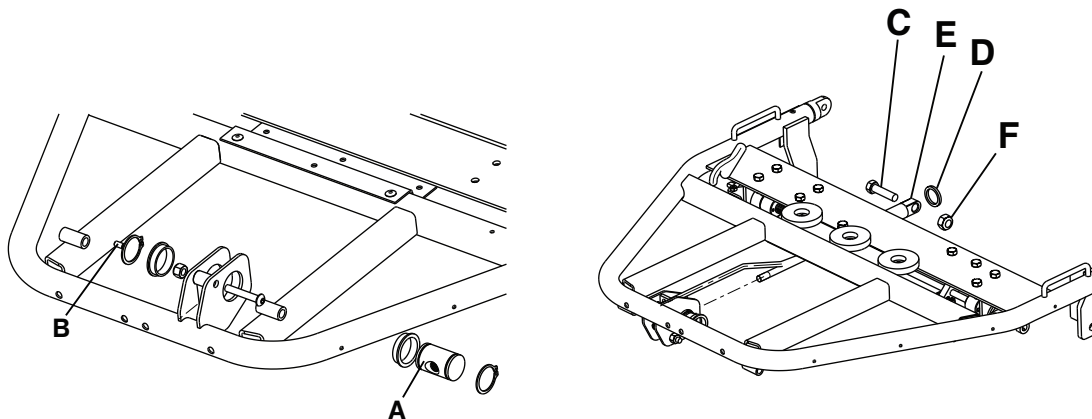


Figure 16 – Leg section cylinder replacement

12. Apply **Loctite 222** to the set screw (B) (removed in step 7) to reinstall the set screw in the center of the yoke (A).
13. Verify proper operation before you return the product to service.

## Leg section locking link replacement

### Tools required:

- 3/16" hex wrench
- 5/64" hex wrench
- 1/2" combination wrench
- (2) 7/16" combination wrench
- (2) 9/16" combination wrench
- 1/4" nut driver
- **Loctite 242**

### Procedure:

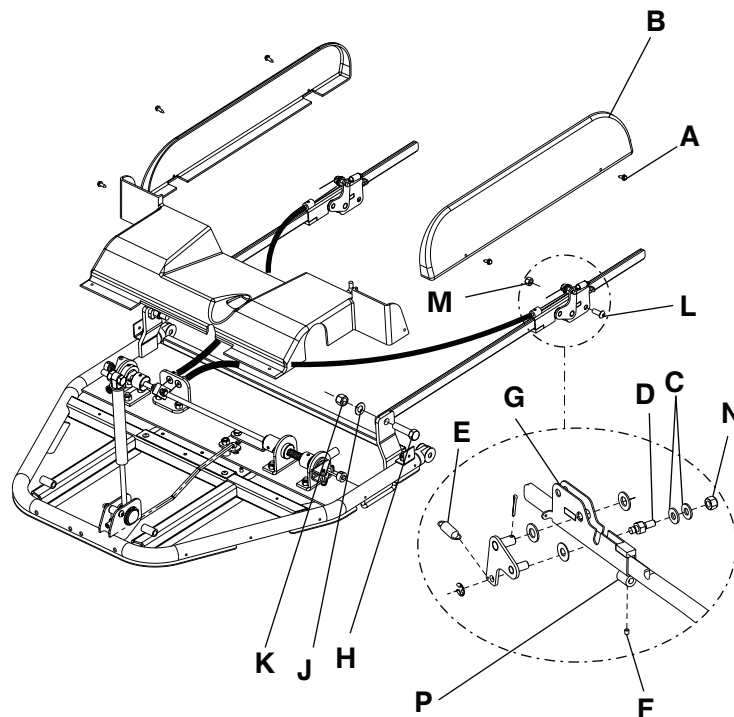
**Note** - Locking link replacement part number: 5050-230-042

1. Apply the brakes. Push on the product to make sure that the brakes work.
2. Raise the litter to the highest height position.
3. Place the product into dependent mode with the red handles on the leg section pointing toward the head end.
4. Lower the Fowler backrest to the flat position.
5. Using a 1/4" nut driver, remove the screws (A) that secure the cover (B) to the frame to remove the cover (Figure 17). Save all parts.
6. Using a 5/64" hex wrench, remove the set screw (F) from the cable stop on the latch housing. Save the set screw.
7. Using two 7/16" combination wrenches, loosen the cable retainer (D) and the nut (N). Pull the cable and cover free from the latch housing (G). Save all parts.
8. Using two 9/16" combination wrenches, remove the bolt (H), washer (J), and the nut (K) that secure the locking link assembly to the foot section. Let the linkage swing down. Save all parts.
9. Using a 3/16" hex wrench and a 1/2" combination wrench, remove the screw (L) and nut (M) that secure the locking link assembly to the Fowler backrest. Remove the locking link.
10. Reverse steps 7 and 8 to install the supplied locking link assembly.

**Note**

- Install the locking link assembly with the notch in the link bar facing up and the cable stop on the latch housing facing down.
- Make sure that the lock pin on the latch housing is seated in the link bar.

11. Insert the cable and cover into the cable stop on the bottom of the latch housing.
12. Feed the cable through the cable stop and through the hole in the cable retainer. Make sure that the cable passes between the two washers (C) on the cable retainer.



**Figure 17 – Leg section locking link replacement**

13. Using a 5/64" hex wrench, reinstall the set screw (removed in step 6) into the cable stop on the bottom of the latch housing.

**Note** - Apply **Loctite 242** to the threads of the set screw before you reinstall the set screw.

14. Complete the *Locking link adjustment* (page 31) before you return the product to service.



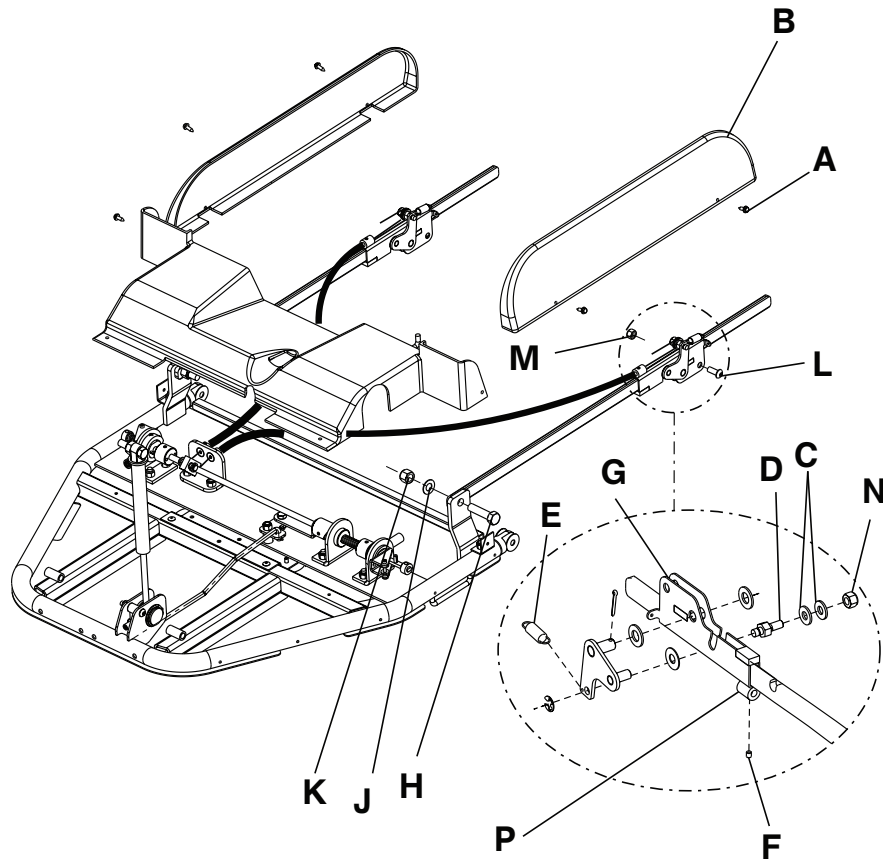
## Locking link adjustment

### Tools required:

- (2) 7/16" combination wrenches
- 1/4" nut driver
- Needle nose pliers
- Regular pliers

### Procedure:

1. Apply the brakes. Push on the product to make sure that the brakes work.
2. Raise the litter to the highest height position.
3. Place the product into dependent mode with the red handles on the leg section pointing toward the head end.
4. Lower the Fowler backrest to the flat position.
5. Using a 1/4" nut driver, remove the screws (A) that secure the cover (B) to the frame to remove the cover (Figure 18). Save all parts.
6. Using two 7/16" combination wrenches, loosen the cable retainer (C) and the hex nut (D) to allow the cable to move freely (Figure 18).
7. Using needle nose pliers, remove the extension spring (E) (Figure 18). Make sure that the lock weldment rotates freely. Save the extension spring.
8. If the lock weldment does not rotate freely, use two 7/16" combination wrenches to loosen the washer (C) and Nylock lock nut (N) until the lock weldment rotates freely.
9. Reconnect the extension spring.
10. Using regular pliers, grasp the end of the cable and pull firmly to remove any slack.
11. Using two 7/16" combination wrenches, tighten the cable and hex nut (D) (Figure 18).
12. Place the product into independent mode with leg section handles toward the foot end.
13. Rotate one of the handles and move the section down about 20 degrees.
14. Using two 7/16" combination wrenches, loosen the cable retainer and the hex nut (D) around the cable.
15. Tap the lock weldment with a wrench and move it down until the lock pin is 1/16" or less above the surface of the inner lock tube (G).



**Figure 18 – Locking link adjustment**

16. Using two 7/16" combination wrenches, tighten the cable retainer and hex nut.
17. Rotate the leg section back toward the head end of the product (dependent mode).
18. Raise the leg section so that the locking linkages latch in place.
19. Move the handle from the dependent to the independent position. Make sure that the lock pin seats into the link bar in dependent mode and that the lock pin is pulled clear of the inner lock tube in independent mode.
20. If the lock pin does not fully seat into the inner lock tube in dependent mode or if the lock pin is not pulled clear of the lock tube in independent mode, repeat steps 5 and 6, and 9 through 15.
21. Using a 1/4" nut driver, reinstall the screws (A) (removed in step 5) to secure the cover (B) to the frame.
22. Verify proper operation before you return the product to service.

## Leg section cable replacement

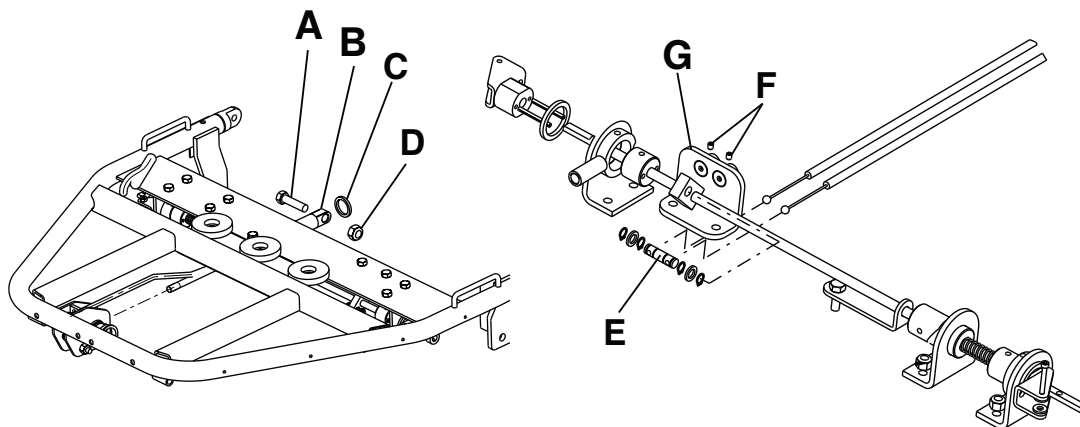
### Tools required:

- 5/64" hex wrench
- 5/16" hex wrench
- 5/8" combination wrench
- (2) 7/16" combination wrench
- 1/4" nut driver
- Loctite 242
- Grease

## Procedure:

**WARNING** - Always put the product into the proper mode to avoid release of the foot cylinder to avoid the risk of operator injury or product damage.

1. Apply the brakes. Push on the product to make sure that the brakes work.
2. Raise the litter to the highest height position.
3. Place the product into dependent mode with the red handles on the leg section pointing toward the head end.
4. Lower the Fowler backrest to the flat position.
5. Place the product into independent mode with the red handles on the leg section pointing toward the foot end.
6. Using a 5/16" hex wrench and a 5/8" combination wrench, remove the bolt (A), washer (C), and nut (D) that secure the gas cylinder (B) to the frame (Figure 19). Save all parts.
7. Using a 1/4" nut driver, remove the screws that secure the foot section cover to the leg section frame. Save the screws.
8. Using a 1/4" nut driver, remove the screws (A) that secure the locking link covers (B) to the frame (*Leg section locking link replacement* (page 29)). Save the screws.
9. Reconnect the foot cylinder to the frame and insert the bolt (A) (removed in step 6) (Figure 19).
10. Place the product into dependent mode with the red handles on the leg section pointing toward the head end.
11. Using two 7/16" combination wrenches, loosen the cable retainer (D) and the nut (N) on the locking linkage (*Leg section locking link replacement* (page 29)).
12. Pull the ball end of the cable at the cable pivot (E) to remove the worn or damaged cable from the cable cover (Figure 19).
13. Using a 5/64" hex wrench, remove the set screws (F) on both ends of the cable cover. Remove the cable cover.
14. Install the supplied cable cover by inserting each end into the respective cable end stop (G).
15. Apply **Loctite** 242 to the set screws and reinstall the set screws (F) (removed in step 13) at the cable stops (G). Do not overtighten the set screws. Overtightening the set screws can crush the cable cover and prevent proper cable movement.
16. Insert the supplied cable through the cable pivot (E). Feed the cable into the large diameter side of the cable pivot (E).



**Figure 19 – Leg section cable replacement**

17. Apply grease to the end of the cable and continue to feed the cable through the cable end stop (C) and through the entire cable cover until the cable reaches the cable stop on the outer lock tube weldment.
18. Place the product into independent mode (leg section handles toward the foot end).
19. Remove the hex bolt that secures the foot cylinder to the frame.
20. Using a 1/4" nut driver, reinstall the screws (removed in step 7) to secure the foot section cover to the leg section frame.
21. Using a 5/16" hex wrench and a 5/8" combination wrench, reinstall the bolt (A), washer (C), and nut (D) (removed in step 6) to secure the gas cylinder (B) to the frame.

22. Using a 1/4" nut driver, reinstall the screws (A) (removed in step 8) to secure the locking linkage cover to the frame.
23. Complete the *Locking link adjustment* (page 31) before you return the product to service.

## Leg section handle adjustment

### Tools required:

- 5/64" hex wrench
- 1/4" combination wrench

### Procedure:

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**WARNING** - Always put the product into the proper mode to avoid release of the foot cylinder to avoid the risk of operator injury or product damage.

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1. Apply the brakes. Push on the product to make sure that the brakes work.
2. Raise the litter to the highest height position.
3. Raise the leg section to the horizontal position.
4. Rotate the red handles so that they point down to the floor.
5. Using a 5/64" hex wrench and a 1/4" combination wrench, loosen or tighten the fastener (D) and hex nut (E) as needed (Figure 15).

**Note** - The handle should be loose enough to activate the pneumatic cylinder and allow the handle to return when released.

6. Return the product to either the dependent mode (handles pointing toward the head end) or independent mode (handles pointing toward the foot end).
7. Verify proper operation before you return the product to service.

## Removing and installing the mattress

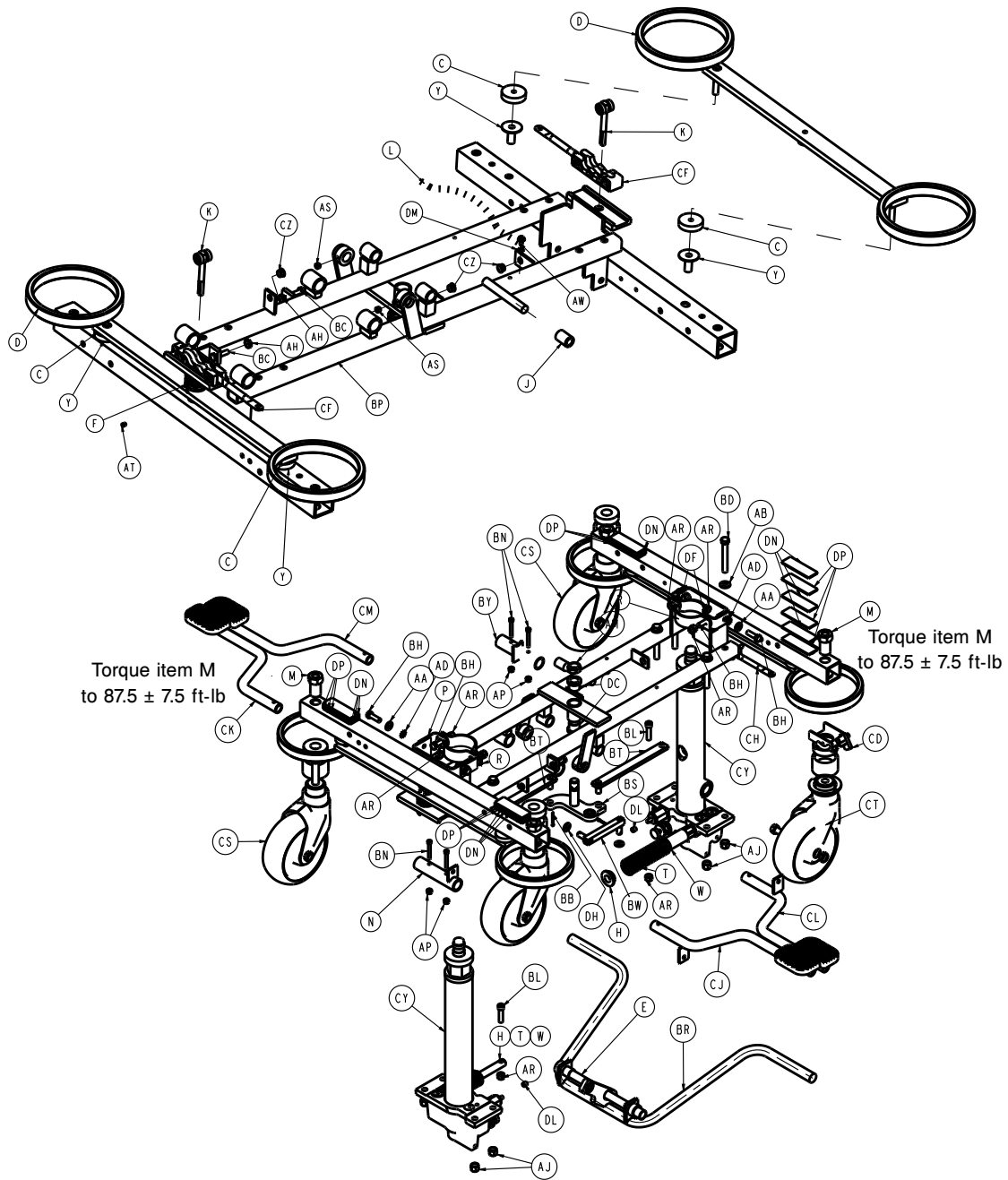
To remove the mattress, from the head end of the product, pull on the head end of the mattress to pull the mattress away from the **Velcro®** on the Fowler backrest and midsection. Continue to pull the mattress toward the head end of the product to release the mattress from the foot section sliding tabs.

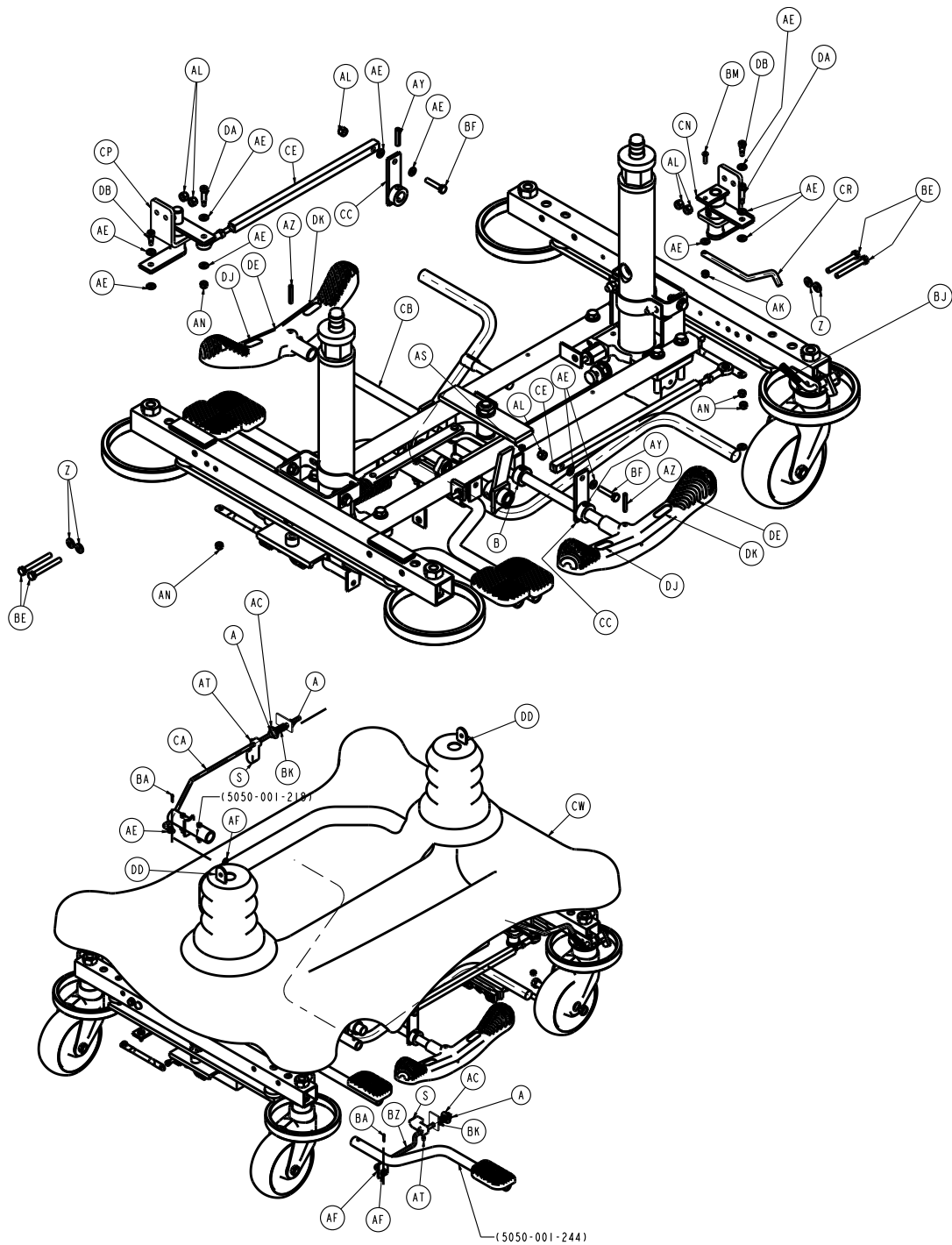
**Note** - The foot section sliding tabs keep the foot section of the mattress close to the litter surface during articulation.

To install the mattress, slide the pockets on the foot end back over the sliding tabs. Place the mattress on the rest of the litter surface. Press firmly on the Fowler backrest and midsection to secure the **Velcro®** strips.

# Base assembly - Model 5050

5050-001-200 Rev T (Reference only)





Item	Number	Name	Quantity
A	0042-013-000	Collar	3
B	0042-020-000	Collar	1
C	0715-001-011	Brake cushion	4
D	0715-001-061	Caster brake assembly	2
E	0715-001-092	Pump pedal shaft	1
F	0715-001-094	Compression spring	2
H	0715-001-133	Jack spring collar	2
J	0715-001-140	Tube	1
K	0715-001-150	Roller brake adjuster assembly	2

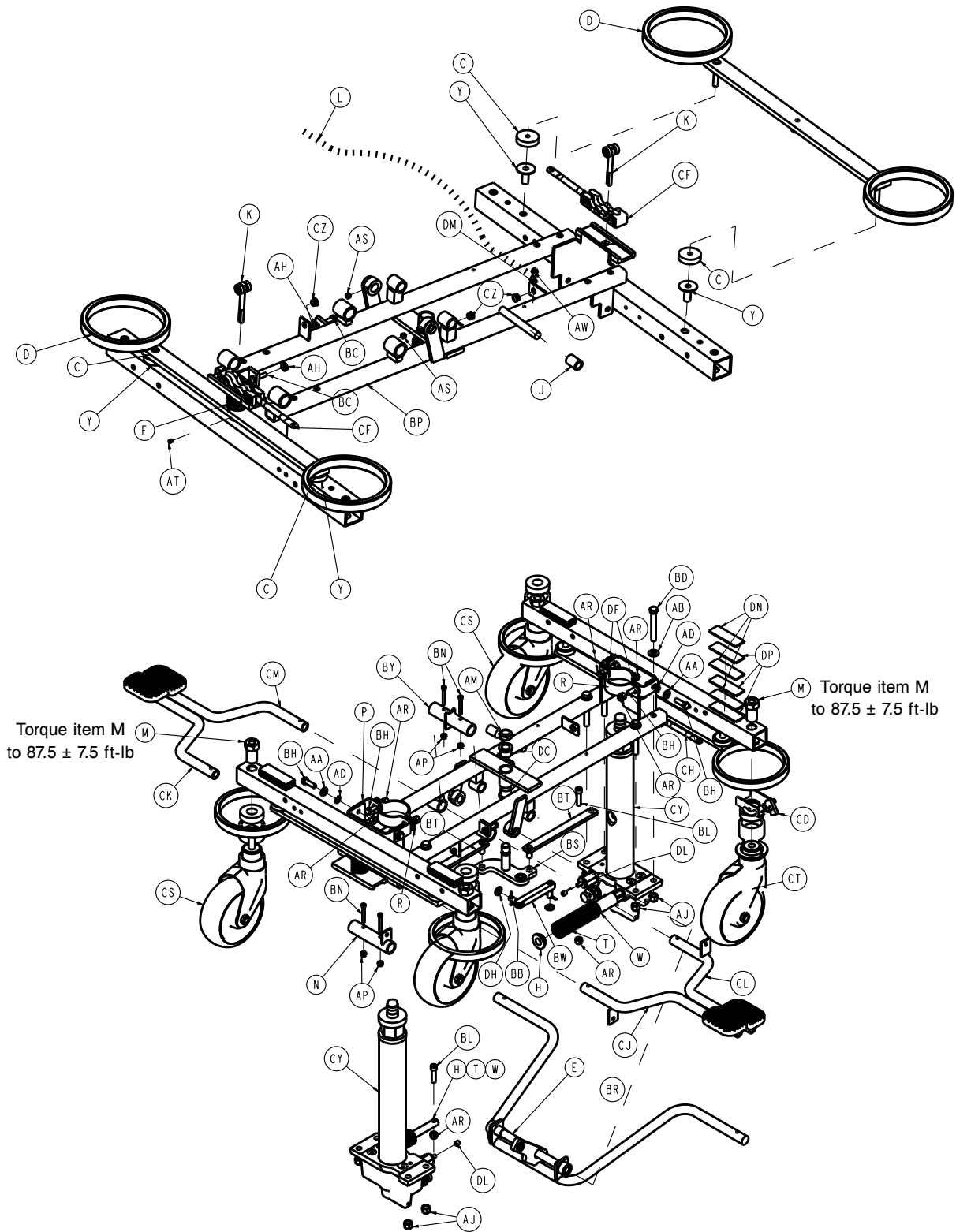
Item	Number	Name	Quantity
L	3001-200-052	Ground chain	1
M	0715-001-158	Caster nut	4
N	0715-001-187	Release pedal sleeve weldment	1
P	0715-001-192	Jack support	1
R	0715-001-193	Jack support clamp	2
S	0715-001-346	Release paddle	2
T	0763-001-015	Jack spring	2
W	0763-001-016	Spring holder	2
Y	0946-001-116	Brake bar bushing	4
Z	0011-002-000	Washer	4
AA	0011-003-000	Washer	4
AB	0011-004-000	Washer	8
AC	0011-180-000	Washer	2
AD	0013-038-000	Tooth lock washer	4
AE	0014-002-000	Washer	13
AF	0014-004-000	Washer	4
AH	0015-011-000	Hex jam nut	2
AJ	0016-012-000	Nylock hex nut	8
AK	0016-014-000	Dynalock nut	1
AL	0016-016-000	Nylock hex nut	6
AM	0016-019-000	Elastic stop nut	1
AN	0016-002-000	Fiberlock nut	4
AP	0016-003-000	Fiberlock nut	4
AR	0016-036-000	Nylock hex nut	10
AS	0021-022-000	Set screw	3
AT	0021-050-000	Set screw	4
AW	0003-364-000	Hex washer head tapping screw	1
AY	0026-013-000	Roll pin	2
AZ	0026-143-000	Grooved pin	2
BA	0027-004-000	Cotter pin	2
BB	0027-007-000	Cotter pin	2
BC	0003-003-000	Hex head cap screw	2
BD	0003-039-000	Hex head cap screw	8
BE	0003-032-000	Hex head cap screw	4
BF	0003-004-000	Hex head cap screw	2
BH	0003-085-000	Hex head cap screw	8
BJ	0038-211-000	Compression spring	1
BK	0038-234-000	Compression spring	2
BL	0004-039-000	Socket head cap screw	2
BM	0004-300-000	Socket head cap screw	1
BN	0004-085-000	Socket head cap screw	4
BP	5050-001-010	Base weldment	1
BR	5050-001-080	Pump pedal assembly	1
BS	5050-001-090	Pump pivot assembly	1
BT	5050-001-100	Pump link weldment	2

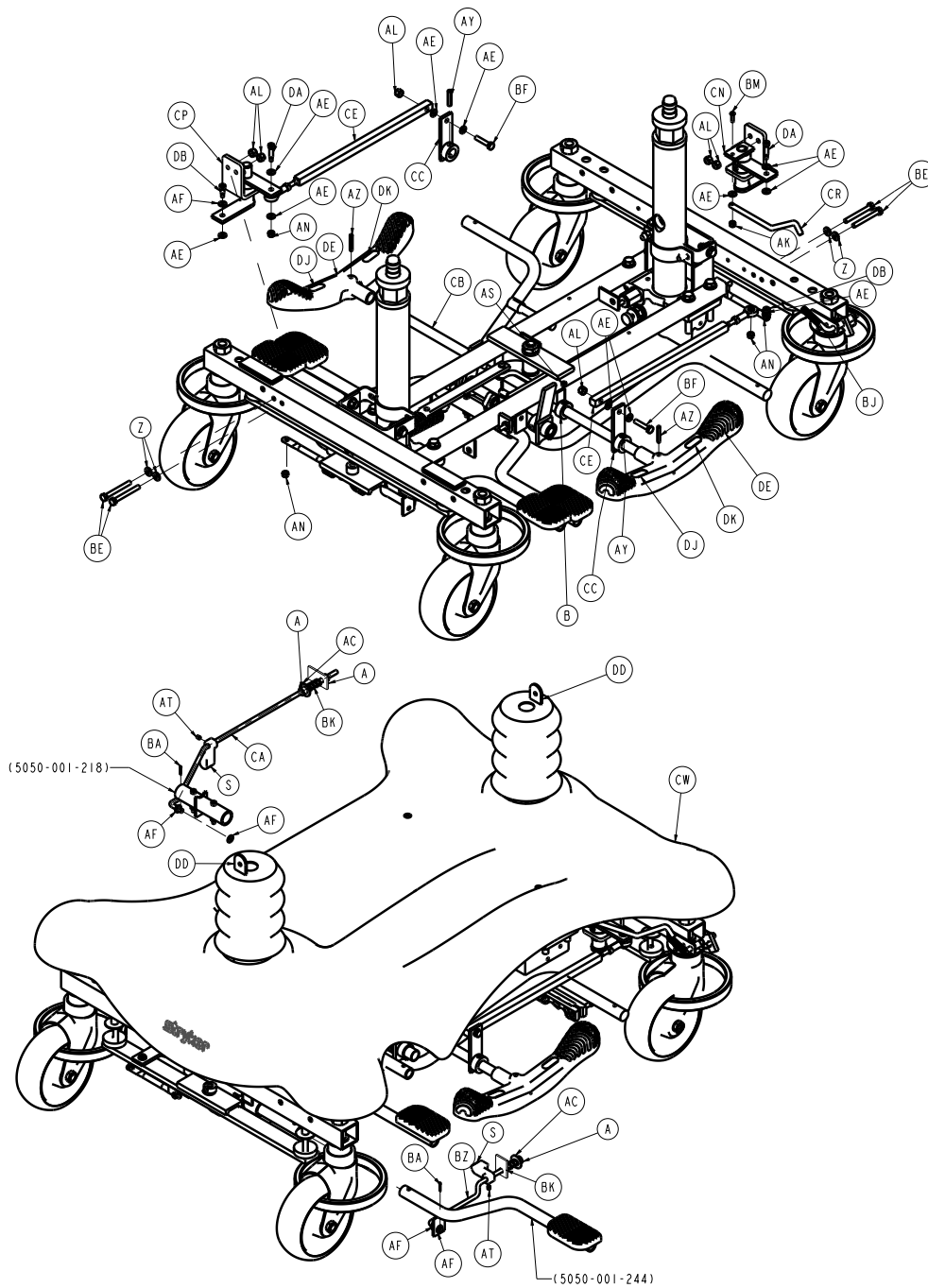
Item	Number	Name	Quantity
BW	5050-001-110	Pump tube weldment	1
BY	5050-001-218	Release sleeve weldment, foot end	1
BZ	5050-001-222	Linkage rod, head end	1
CA	5050-001-223	Release linkage, foot end	1
CB	5050-001-227	Brake rod	1
CC	5050-001-229	Brake actuator weld	2
CD	5050-001-230	Latch assembly	1
CE	5050-001-233	Brake drive link assembly	2
CF	5050-001-234	Brake cam assembly	2
CH	5050-001-235	Jack support clamp	1
CJ	5050-001-244	Release pedal assembly, head end, right	1
CK	5050-001-245	Release pedal assembly, head end, left	1
CL	5050-001-246	Release pedal assembly, foot end, right	1
CM	5050-001-247	Release pedal assembly, foot end, left	1
CN	5050-001-260	Brake actuator, foot end	1
CP	5050-001-261	Brake actuator, head end	1
CR	5050-001-270	Steer lock linkage	1
CS	5050-002-050	Caster wheel assembly	3
CT	5050-005-051	Steer caster wheel assembly	1
CW	5050-010-001	Base hood and label assembly	1
CY	5050-270-010	Jack assembly	2
CZ	0052-245-000	Nyliner	3
DA	0008-020-000	Socket head cap screw	2
DB	0008-007-000	Socket head cap screw	2
DC	0081-245-000	Flange bearing	2
DD	0715-001-134	Bellows	2
DE	1210-201-153	Butterfly "V" pedal	2
DF	0011-262-000	Washer	4
DH	0011-004-000	Washer	2
DJ	1210-201-335	Label, brake	2
DK	1210-201-336	Label, steer	2
DL	0715-001-333	Stop sleeve	2
DM	0013-018-000	External tooth lock washer	1
DN	0029-007-000	Dual lock	12
DP	0029-009-000	Dual lock	12



# Base assembly - Model 5051

5051-001-200 Rev E (Reference only)





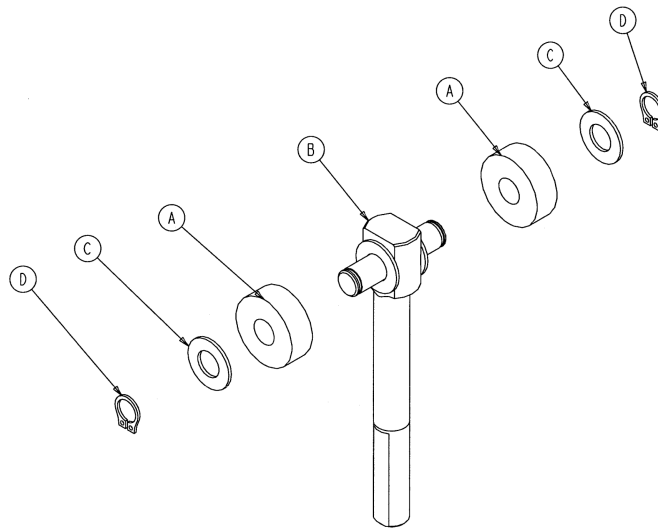
Item	Number	Name	Quantity
A	0042-013-000	Collar	3
B	0042-020-000	Collar	1
C	0715-001-011	Brake cushion	4
D	0715-001-061	Caster brake assembly	2
E	0715-001-092	Pump pedal shaft	1
F	0715-001-094	Compression spring	2
H	0715-001-133	Jack spring collar	2
J	0715-001-140	Tube	1
K	0715-001-150	Roller brake adjuster assembly	2
L	3001-200-052	Ground chain	1
M	0715-001-158	Caster nut	4

Item	Number	Name	Quantity
N	0715-001-187	Release pedal sleeve weldment	1
P	0715-001-192	Jack support	1
R	0715-001-193	Jack support clamp	2
S	0715-001-346	Release paddle	2
T	0763-001-015	Jack spring	2
W	0763-001-016	Spring holder	2
Y	0946-001-116	Brake bar bushing	4
Z	0011-002-000	Washer	4
AA	0011-003-000	Washer	4
AB	0011-004-000	Washer	8
AC	0011-053-000	Washer	2
AD	0013-038-000	Tooth lock washer	4
AE	0014-002-000	Washer	13
AF	0014-004-000	Washer	4
AH	0015-011-000	Hex jam nut	2
AJ	0016-012-000	Nylock hex nut	8
AK	0016-014-000	Dynalock nut	1
AL	0016-016-000	Nylock hex nut	6
AM	0016-019-000	Elastic stop nut	1
AN	0016-002-000	Fiberlock nut	4
AP	0016-003-000	Fiberlock nut	4
AR	0016-036-000	Nylock hex nut	10
AS	0021-022-000	Set screw	3
AT	0021-050-000	Set screw	4
AW	0003-364-000	Hex washer head tapping screw	1
AY	0026-013-000	Roll pin	2
AZ	0026-143-000	Grooved pin	2
BA	0027-004-000	Cotter pin	2
BB	0027-007-000	Cotter pin	2
BC	0003-003-000	Hex head cap screw	2
BD	0003-039-000	Hex head cap screw	8
BE	0003-032-000	Hex head cap screw	4
BF	0003-004-000	Hex head cap screw	2
BH	0003-085-000	Hex head cap screw	8
BJ	0038-211-000	Compression spring	1
BK	0038-234-000	Compression spring	2
BL	0004-039-000	Socket head cap screw	2
BM	0004-300-000	Socket head cap screw	1
BN	0004-085-000	Socket head cap screw	4
BP	5050-001-010	Base weldment	1
BR	5050-001-080	Pump pedal assembly	1
BS	5050-001-090	Pump pivot assembly	1
BT	5050-001-100	Pump link weldment	2
BW	5050-001-110	Pump tube weldment	1
BY	5050-001-218	Release sleeve weldment, foot end	1

Item	Number	Name	Quantity
BZ	5050-001-222	Linkage rod, head end	1
CA	5050-001-223	Release linkage, foot end	1
CB	5050-001-227	Brake rod	1
CC	5050-001-229	Brake actuator weld	2
CD	5050-001-230	Latch assembly	1
CE	5050-001-233	Brake drive link assembly	2
CF	5050-001-234	Brake cam assembly	2
CH	5050-001-235	Jack support clamp	1
CJ	5050-001-244	Release pedal assembly, head end, right	1
CK	5050-001-245	Release pedal assembly, head end, left	1
CL	5050-001-246	Release pedal assembly, foot end, right	1
CM	5050-001-247	Release pedal assembly, foot end, left	1
CN	5050-001-260	Brake actuator, foot end	1
CP	5050-001-261	Brake actuator, head end	1
CR	5050-001-270	Steer lock linkage	1
CS	5050-002-050	Caster wheel assembly	3
CT	5050-005-051	Steer caster wheel assembly	1
CW	5050-010-001	Base hood and label assembly	1
CY	5050-270-010	Jack assembly	2
CZ	0052-245-000	Nyliner	3
DA	0008-020-000	Socket head cap screw	2
DB	0008-007-000	Socket head cap screw	2
DC	0081-245-000	Flange bearing	2
DD	0715-001-134	Bellows	2
DE	1210-201-153	Butterfly "V" pedal	2
DF	0011-262-000	Washer	4
DH	0011-004-000	Washer	2
DJ	1210-201-335	Label, brake	2
DK	1210-201-336	Label, steer	2
DL	0715-001-333	Stop sleeve	2
DM	0013-018-000	External tooth lock washer	1
DN	0029-007-000	Dual lock	12
DP	0029-009-000	Dual lock	12

# Brake adjuster assembly - 0715-001-150

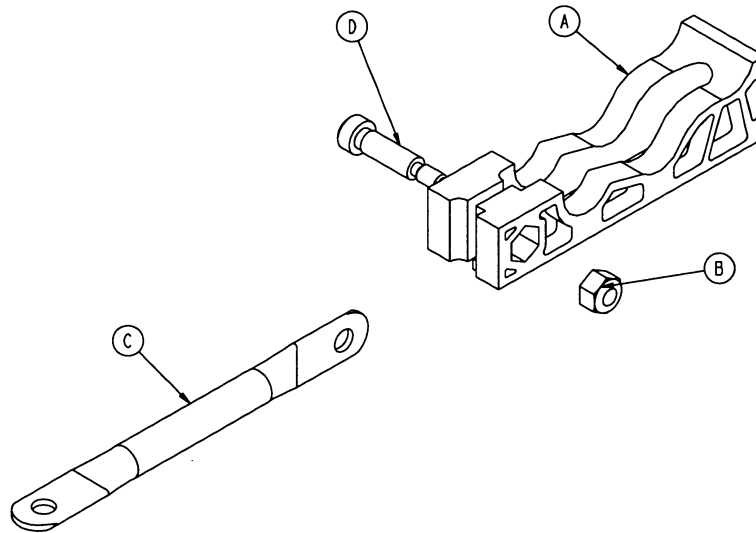
Rev E (Reference only)



Item	Number	Name	Quantity
A	0715-201-062	Threaded stud assembly	1
B	0014-004-000	Nylon washer	4
C	0715-001-180	Bearing, cam	2
D	0028-008-000	External retaining ring	2

# Brake cam assembly - 5050-001-234

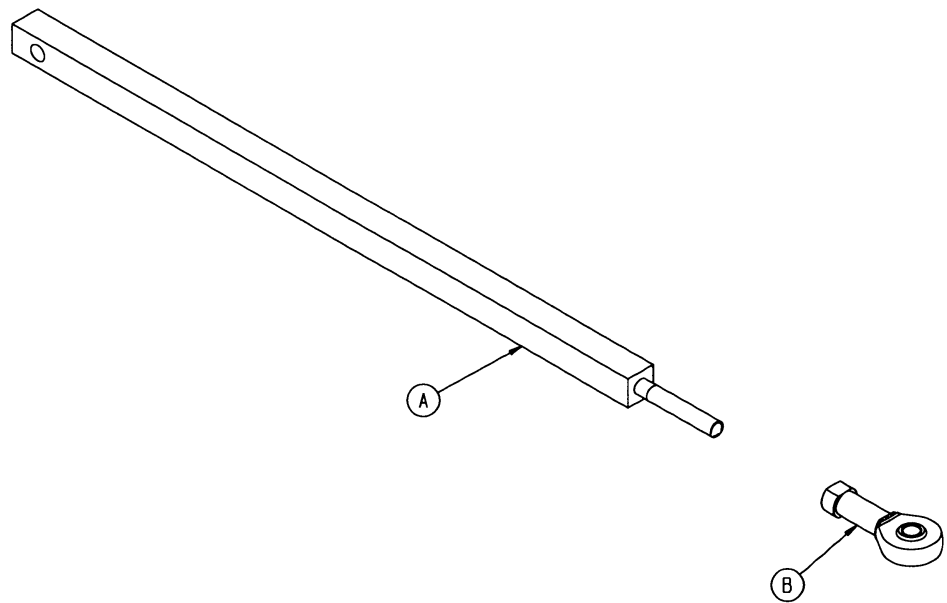
Rev B (Reference only)



Item	Number	Name	Quantity
A	0715-301-221	Brake cam	1
B	0016-059-000	Hex nut	1
C	5050-001-228	Brake cam link	1
D	0008-021-000	Socket head shoulder bolt	1

# Brake drive link assembly - 5050-001-233

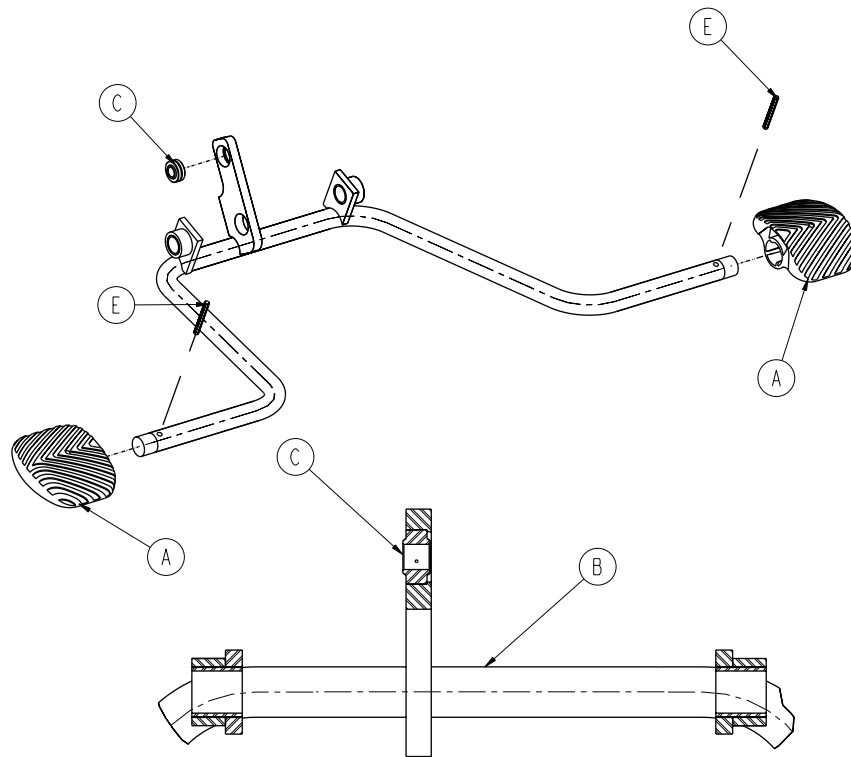
Rev - (Reference only)



Item	Number	Name	Quantity
A	5050-001-226	Brake drive link	1
B	5050-001-232	Rod end bearing	1

# Pump pedal assembly - 5050-001-080

Rev A (Reference only)

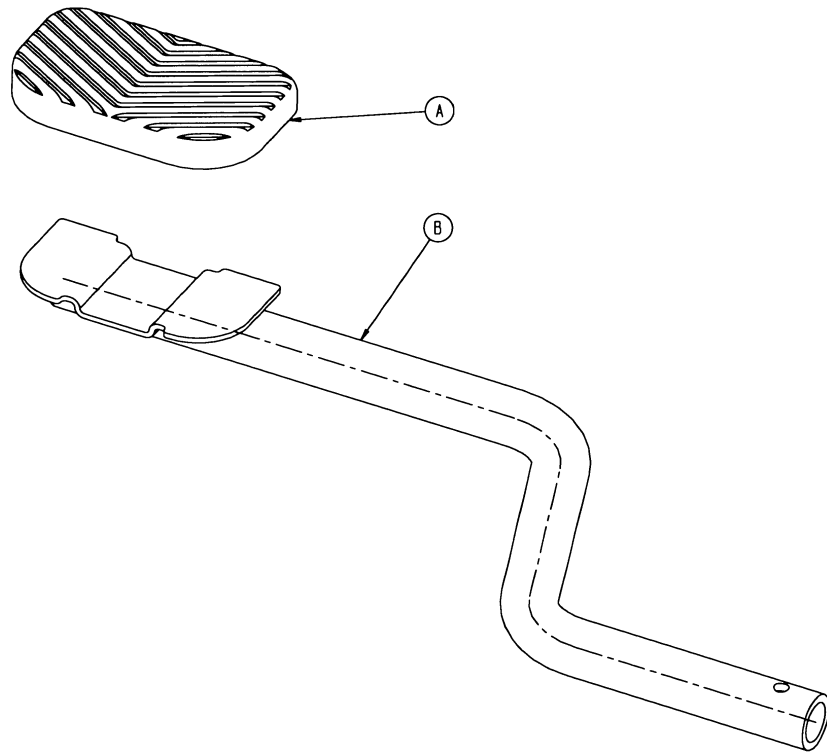


Item	Number	Name	Quantity
A	0715-201-126	Pump pedal	2
B	5050-001-082	Pump pedal assembly weldment	1
C	5050-001-093	Spherical bearing	1
E	0026-143-000	Groove pin	2



# Release pedal assembly, head end, left - 5050-001-245

Rev - (Reference only)

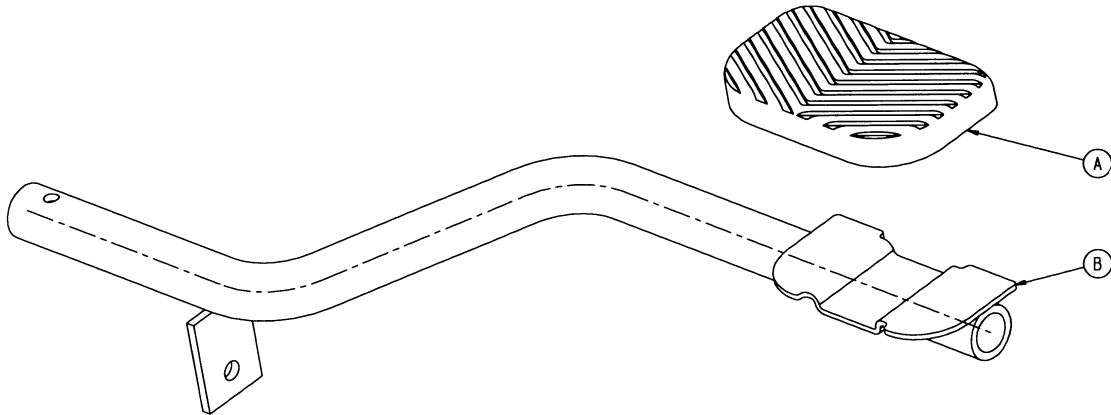


Item	Number	Name	Quantity
A	0721-040-025	Pedal	1
B	5050-001-211	Control release pedal, head end, left	1

**Note** - Apply plastic adhesive to the mating surfaces of item A prior to assembly.

# Release pedal assembly, head end, right – 5050-001-244

Rev - (Reference only)

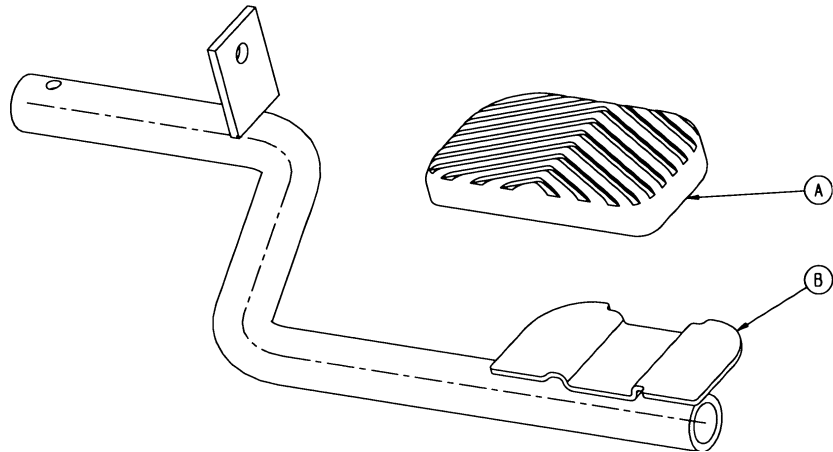


Item	Number	Name	Quantity
A	0721-040-025	Pedal	1
B	5050-001-220	Control release pedal, head end, right	1

**Note** - Apply plastic adhesive to the mating surfaces of item A prior to assembly.

# Release pedal assembly, foot end, right - 5050-001-246

Rev - (Reference only)

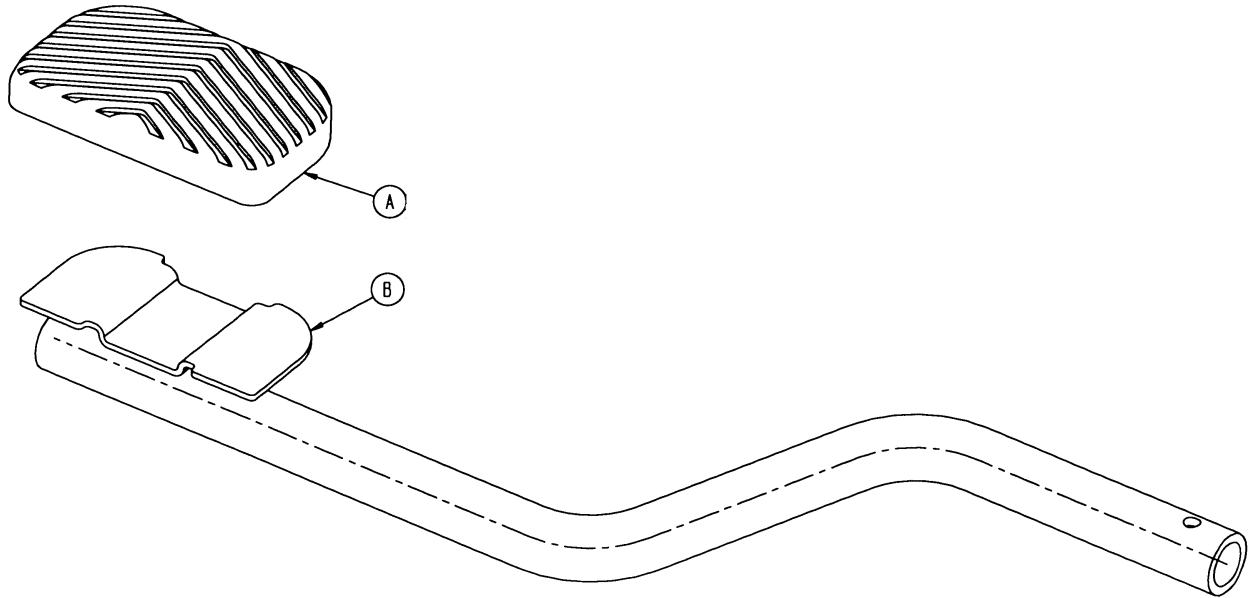


Item	Number	Name	Quantity
A	0721-040-025	Pedal	1
B	5050-001-208	Control release pedal, foot end, left	1

**Note** - Apply plastic adhesive to the mating surfaces of item A prior to assembly.

# Release pedal assembly, foot end, left - 5050-001-247

Rev - (Reference only)

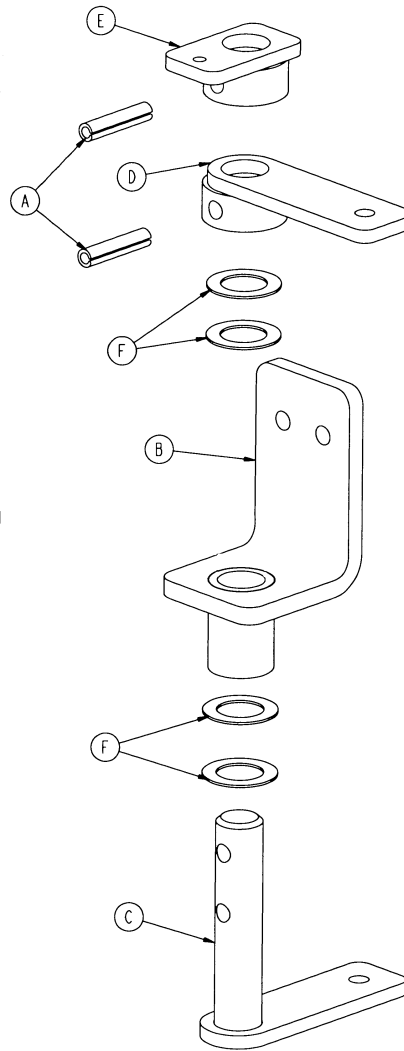


Item	Number	Name	Quantity
A	0721-040-025	Pedal	1
B	5050-001-210	Control release pedal, foot end, right	1

**Note** - Apply plastic adhesive to the mating surfaces of item A prior to assembly.

# Brake actuator assembly, foot end - 5050-001-260

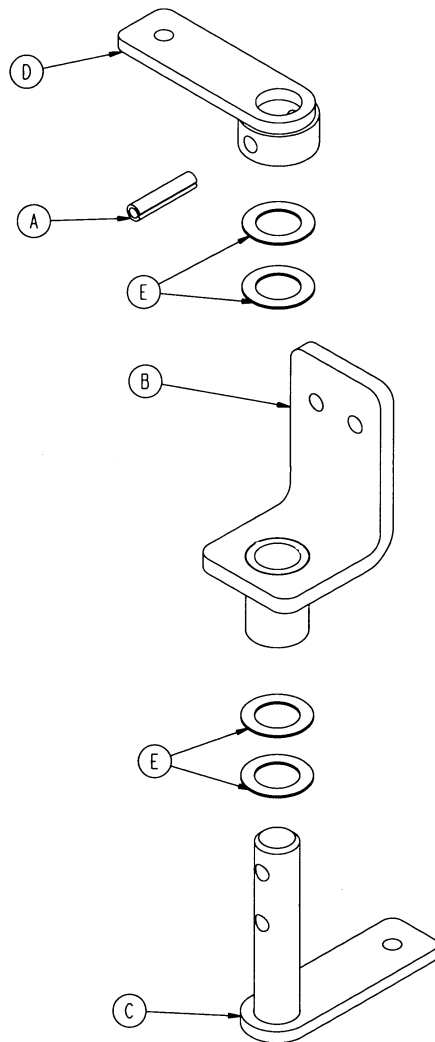
Rev A (Reference only)



Item	Number	Name	Quantity
A	0026-013-000	Spring pin	2
B	5050-001-013	Brake pivot weldment	1
C	5050-001-014	Actuator weldment	1
D	5050-001-265	Actuator arm	1
E	5050-001-280	<b>Steer-Lock</b> arm weld	1
F	0014-080-000	Washer	4

# Brake actuator assembly - 5050-001-261

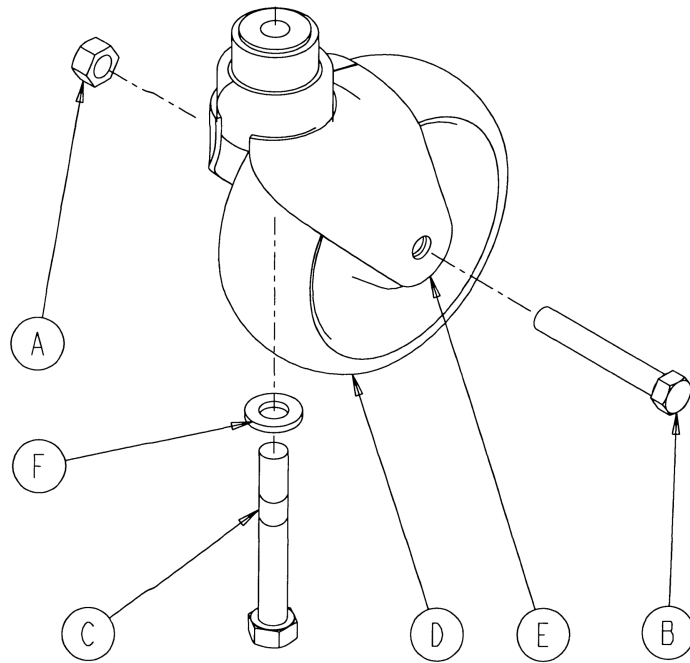
Rev A (Reference only)



Item	Number	Name	Quantity
A	0026-013-000	Spring pin	1
B	5050-001-013	Brake pivot weldment	1
C	5050-001-014	Actuator weldment	1
D	5050-001-265	Actuator arm	1
E	0014-080-000	Washer	4

# Caster wheel assembly - 5050-002-050

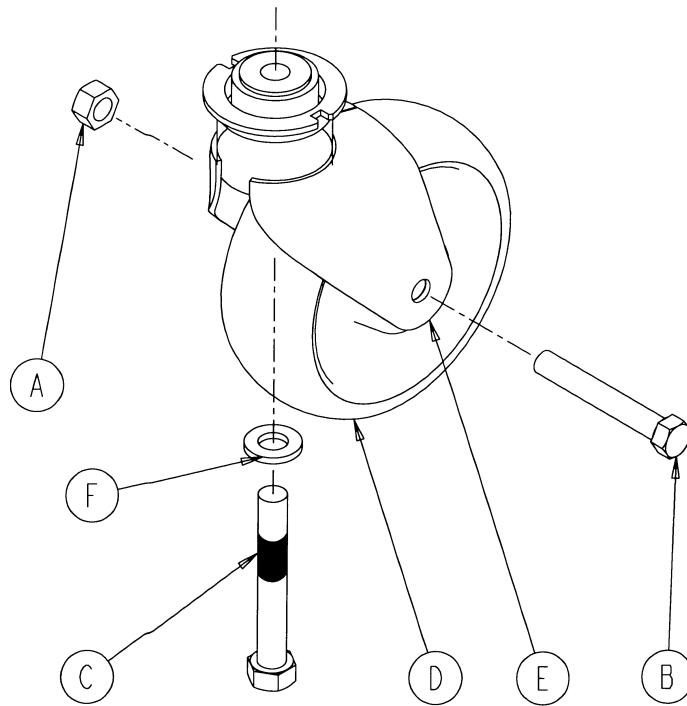
Rev A (Reference only)



Item	Number	Name	Quantity
A	0016-060-000	Hex nut	1
B	0003-205-000	Hex cap screw	1
C	0715-003-096	Hex cap screw	1
D	5050-002-010	5.75 in. molded wheel assembly (page 55)	1
E	5050-002-030	Caster assembly	1
F	0011-310-000	Washer	1

# Steer caster wheel assembly - 5050-002-051

Rev A (Reference only)

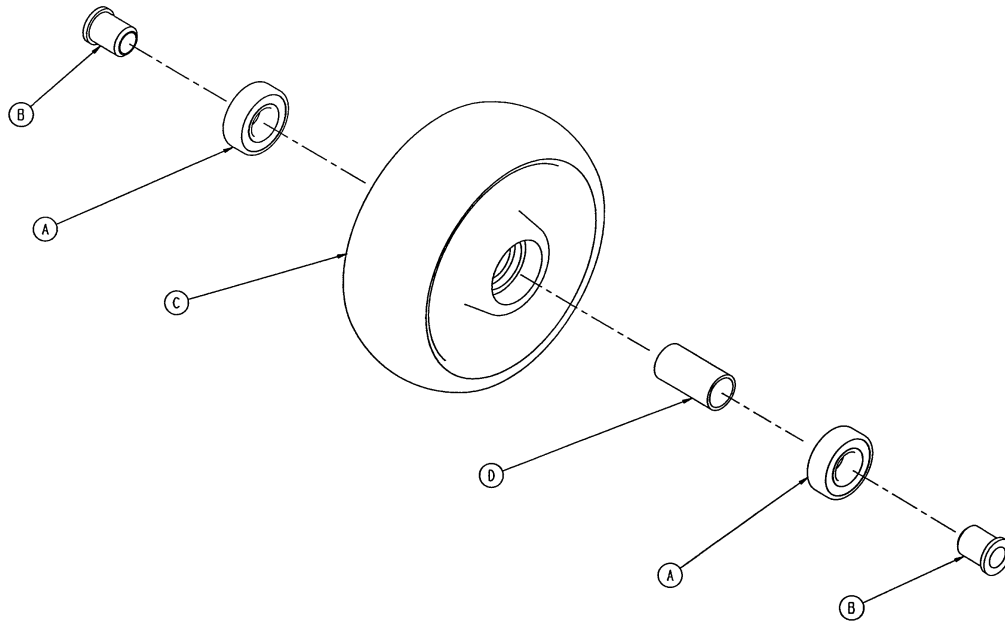


Item	Number	Name	Quantity
A	0016-060-000	Hex nut	1
B	0003-205-000	Hex cap screw	1
C	0715-003-096	Hex cap screw	1
D	5050-002-010	5.75 in. molded wheel assembly (page 55)	1
E	5050-002-031	Caster Assembly	1
F	0011-310-000	Washer	1



# 5.75 in. molded wheel assembly

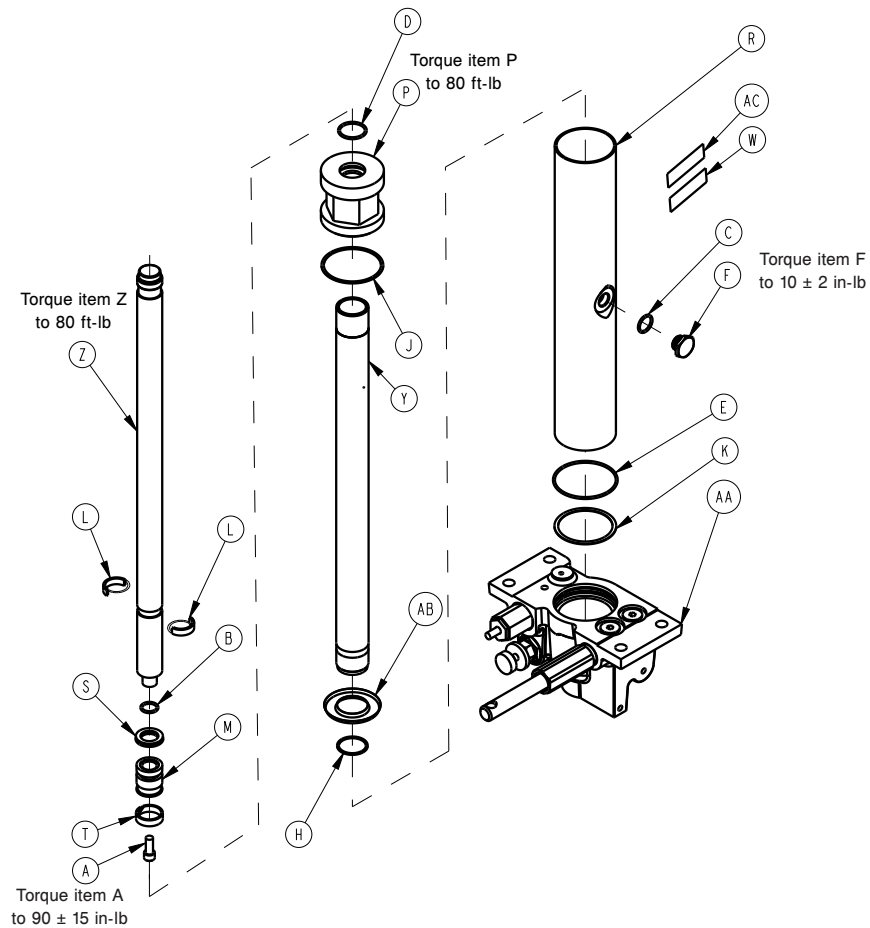
5050-002-010 Rev AA (Reference only)



Item	Name	Number	Quantity
A	0081-226-000	Bearing	2
B	0715-001-255	Wheel bushing	2
C	5050-002-020	5.75 in. molded wheel	1
D	6060-002-041	Bearing spacer	1

# Jack assembly - 5050-270-010

Rev G (Reference only)

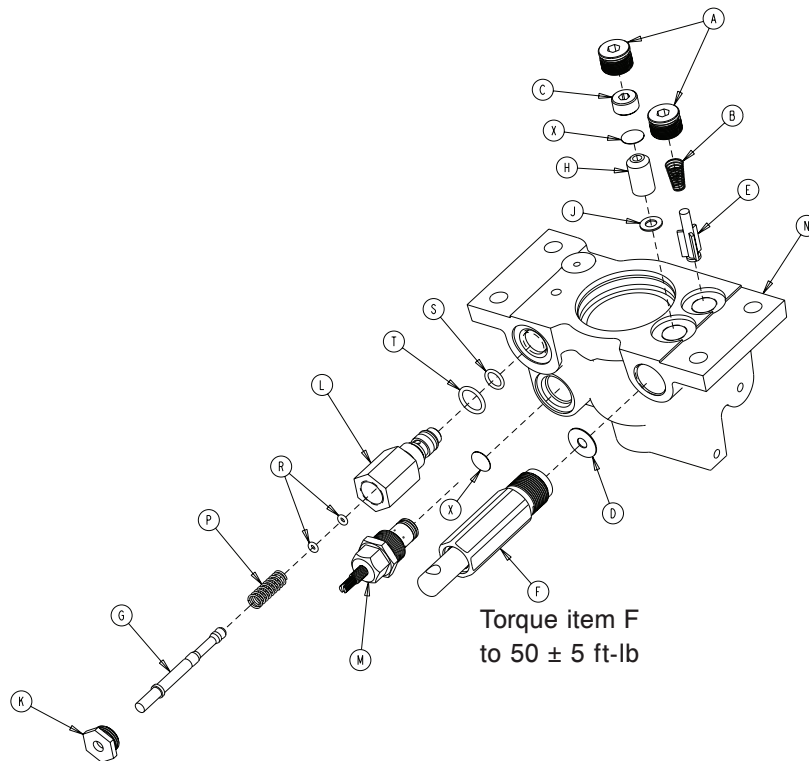


Item	Number	Name	Quantity
A	0004-014-000	Socket head cap screw	1
B	0045-014-000	O-ring	1
C	0045-015-001	O-ring	1
D	0045-904-000	O-ring	1
E	0045-978-000	O-ring	1
F	0388-001-039	Plug	1
H	0390-001-238	Actuator gasket	1
J	0390-001-243	Gasket	1
K	0390-001-244	Base gasket	1
L	0390-002-139	Retaining ring	2
M	0715-001-331	Piston end	1
P	0715-001-340	Jack cap assembly	1
R	0715-001-422	Reservoir	1
S	0926-020-161	Parker packing	1
T	0926-030-162	Wear ring	1
W	5050-090-017	Label, jack assembly	1
Y	5050-270-020	Actuator cylinder	1
Z	5050-370-030	Actuator	1

<b>Item</b>	<b>Number</b>	<b>Name</b>	<b>Quantity</b>
AA	5050-270-100	<i>Jack base assembly (page 58)</i>	1
AB	0715-001-320	Jack screen	1
AC	0921-001-252	Label, serial number	1

# Jack base assembly

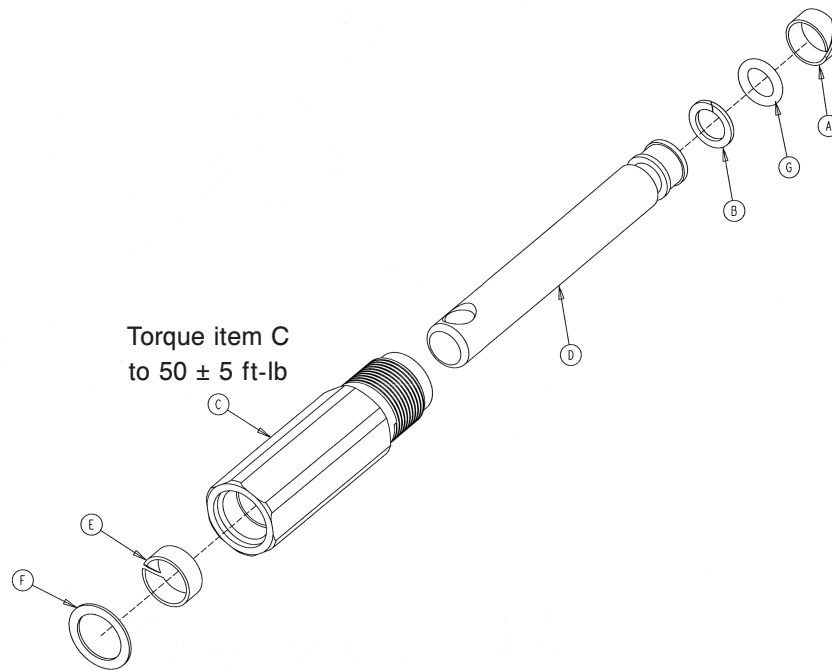
5050-270-100 Rev J (Reference only)



Item	Number	Name	Quantity
A	0048-147-000	Base plug	2
B	0390-002-134	Conical compression spring	1
C	0715-001-309	Valve plug	1
D	0715-001-329	Pump seal	1
E	0715-001-341	Poppet	1
F	0715-201-325	Pump piston assembly	1
G	0715-270-001	Pin	1
H	0926-020-153	Check valve	1
J	0926-020-154	Seal	1
K	1210-170-013	Base plug	1
L	2025-075-087	Pin housing	1
M	5050-170-050	Adjustable P.C. valve cartridge	1
N	5050-370-110	Jack base	1
P	0038-311-000	Compressions spring	1
R	0045-006-000	O-ring	2
S	0045-966-000	O-ring	1
T	0045-967-000	O-ring	1
X	0715-001-321	Check valve screen	2

# Jack pump piston assembly - 0715-100-425

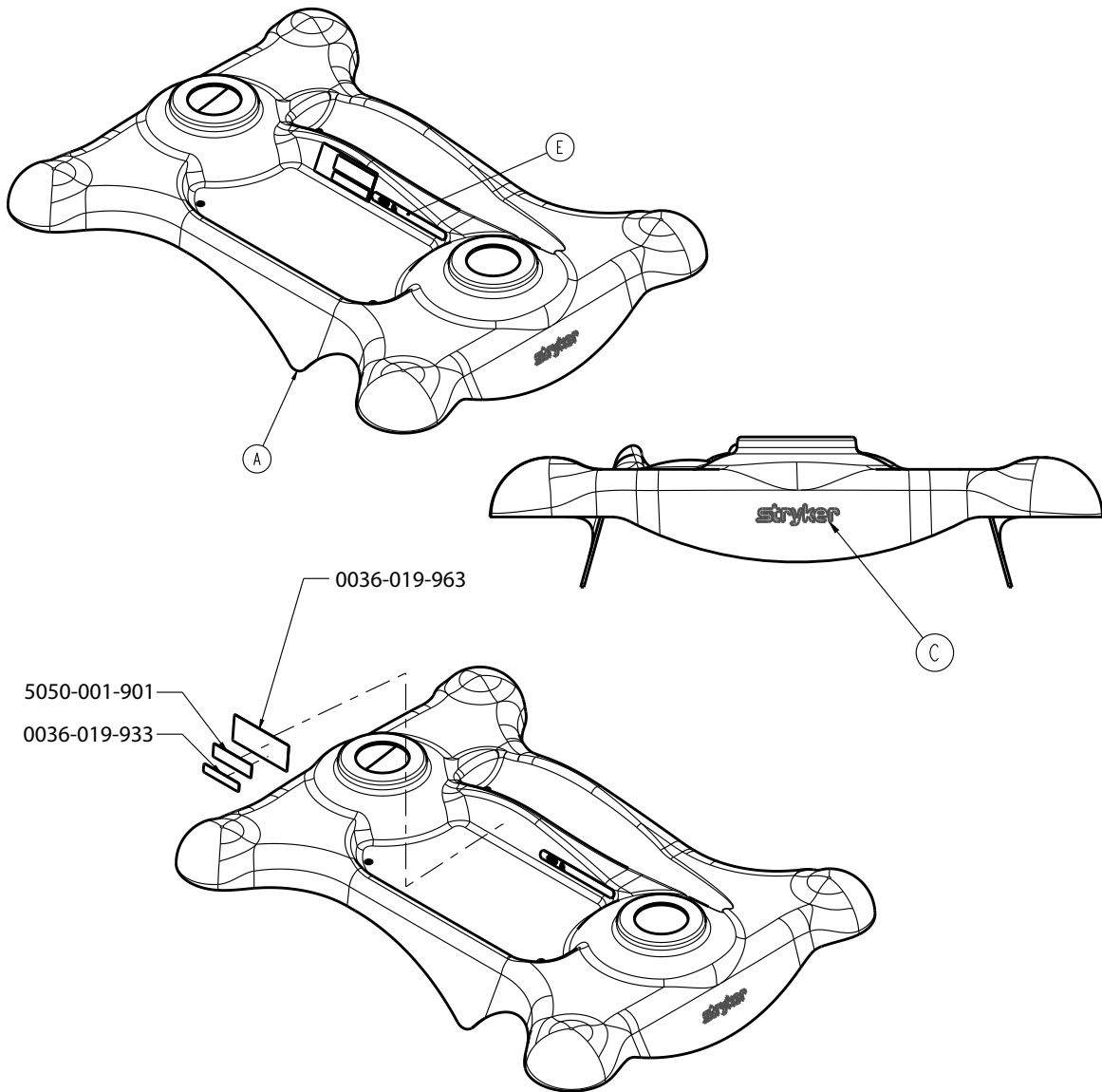
0715-201-325 Rev - (Reference only)



Item	Number	Name	Quantity
A	0715-001-328	Piston wear ring	1
B	0715-001-400	O-ring back up	1
C	0715-200-316	Pump cylinder	1
D	0715-201-318	Pump piston	1
E	0715-201-327	Cylinder wear ring	1
F	0014-050-000	Washer	1
G	0045-110-000	O-ring	1

# Base hood/label assembly

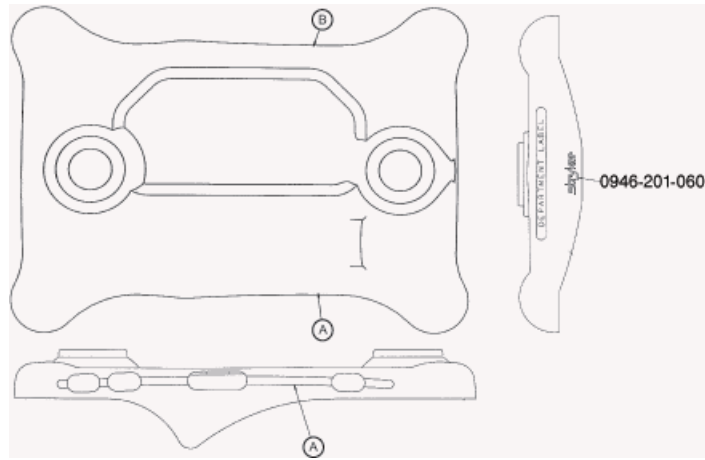
5050-010-001 Rev B (Reference only)



Item	Number	Name	Quantity
A	5050-010-002	Base hood	1
C	0946-201-060	Label, Stryker logo	2
E	5050-090-015	Label, weight capacity	1

**Note** - The specification label (5050-090-015) and the warning labels (5050-090-006 and 5050-090-007) are critical to the safe operation of the stretcher chair. If they are not present and in good condition, they must be replaced.

# Base hood graphics

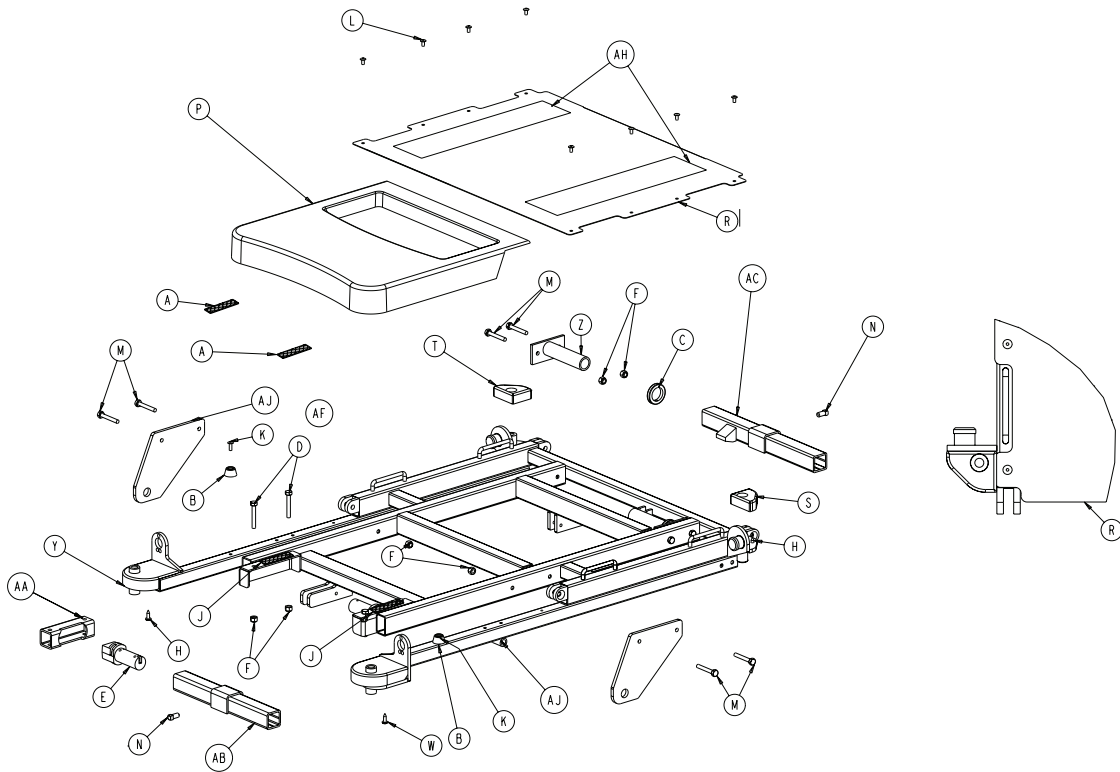


Color	Set part number	Item A, control label, right	Item B, control label, left	Head end bumper	Foot end bumper
Red	5050-700-010	5050-700-011	5050-700-012	5050-700-013	5050-700-014
Purple	5050-700-020	5050-700-021	5050-700-022	5050-700-023	5050-700-024
Green	5050-700-030	5050-700-031	5050-700-032	5050-700-033	5050-700-034
Gray	5050-700-040	5050-700-041	5050-700-042	5050-700-043	5050-700-044
Teal	5050-700-050	5050-700-051	5050-700-052	5050-700-053	5050-700-054
Pink	5050-700-060	5050-700-061	5050-700-062	5050-700-063	5050-700-064
Blue	5050-700-070	5050-700-071	5050-700-072	5050-700-073	5050-700-074

Department	Label	Department	Label
Emergency	1010-900-215	Radiology	1010-900-250
P.A.C.U.	1010-900-220	Nuclear medicine	1010-900-255
Transport	1010-900-225	Ambulatory surgery	1010-900-260
Surgery	1010-900-230	G.I. lab	1010-900-265
Extended stay	1010-900-235	Cath. lab	1010-900-270
Maternity	1010-900-240	Same day surgery	1010-900-275
Endoscopy	1010-900-245	Cardio	1010-900-280
		Ultrasound	1010-900-285

# Midsection assembly

5050-031-001 Rev J (Reference only)



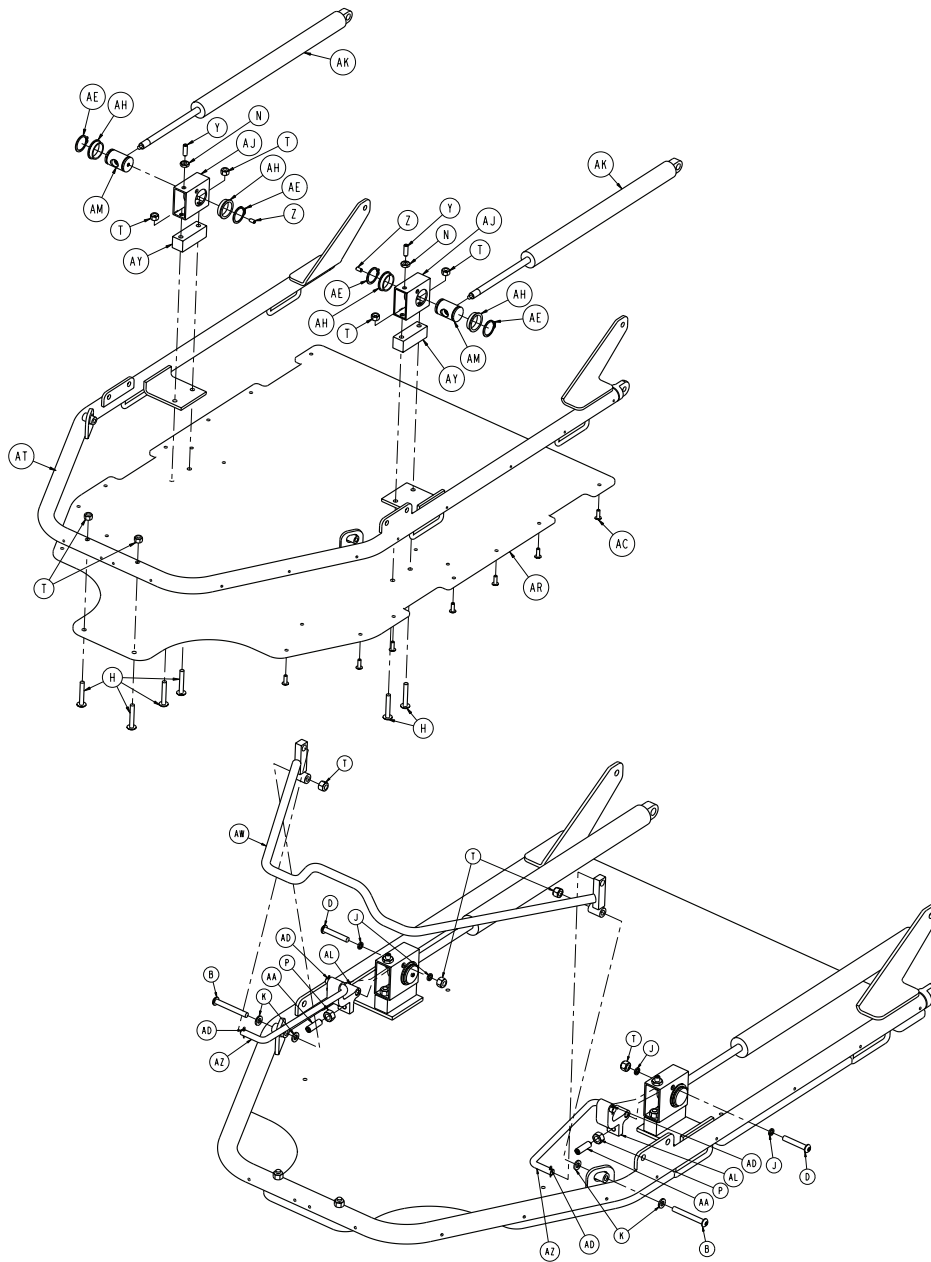
Item	Number	Name	Quantity
A	0029-007-000	Velcro® dual lock	2
B	0056-011-000	Rubber bumper	2
C	0938-001-401	Collar	2
D	0003-076-000	Hex head cap screw	4
E	1001-201-029	Nylon insert	2
F	0016-028-000	Fiberlock hex nut	12
H	0023-100-000	Pan head tapping screw	4
J	0029-009-000	Velcro® dual lock	2
K	0025-050-000	Pop rivet	2
L	0025-079-000	Pop rivet	8
M	0003-017-000	Hex head cap screw	8
N	0046-001-000	Set screw	2
P	5050-030-003	Center enclosure	1
R	5050-030-006	Midsection skin	1
S	5050-030-034	Foot end IV cover, right	1
T	5050-030-035	Foot end IV cover, left	1
W	5050-030-036	Head end IV cover, right	1
Y	5050-030-037	Head end IV cover, left	1
Z	5050-031-011	Foot end support	2
AA	5050-031-017	Insert support	2
AB	5050-031-018	Cross tube weldment, head end	1
AC	5050-031-024	Cross tube weldment, foot end	1

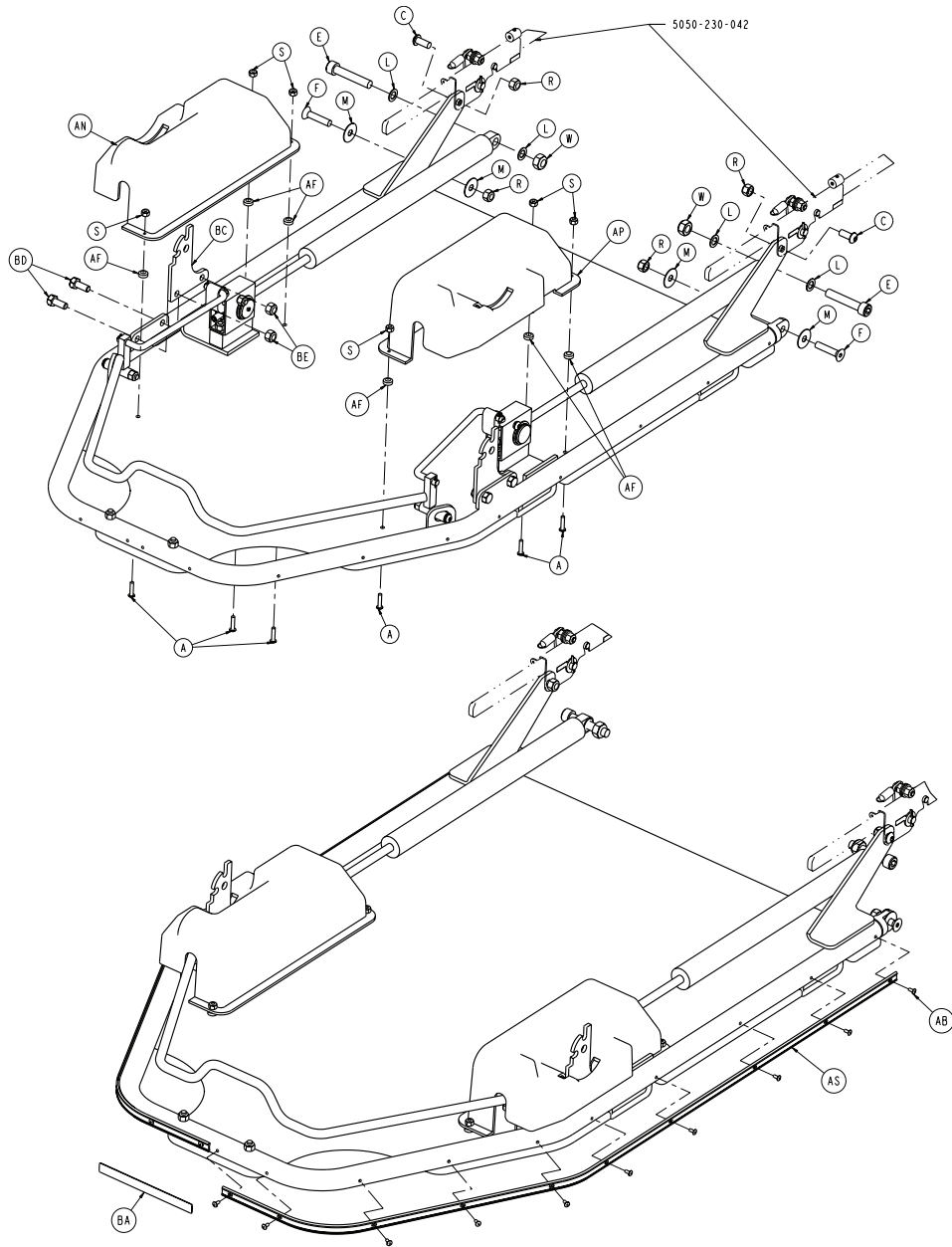


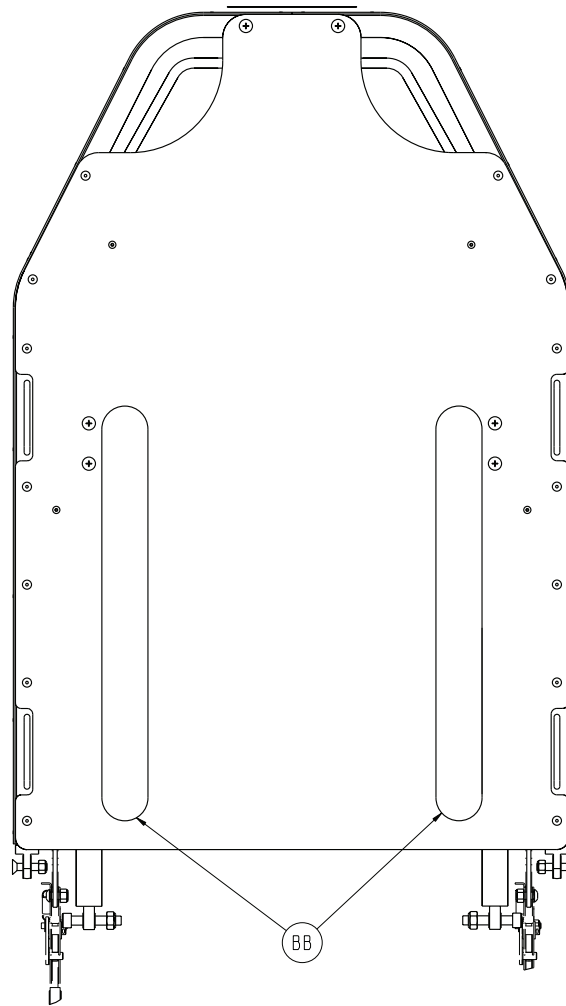
<b>Item</b>	<b>Number</b>	<b>Name</b>	<b>Quantity</b>
AF	5050-031-010	Midsection weldment	1
AH	7900-001-102	<b>Velcro®</b> pile	2
AJ	5050-031-040	Spring mount	2

# 5050 Fowler backrest assembly

5050-033-001 Rev J (Reference only)





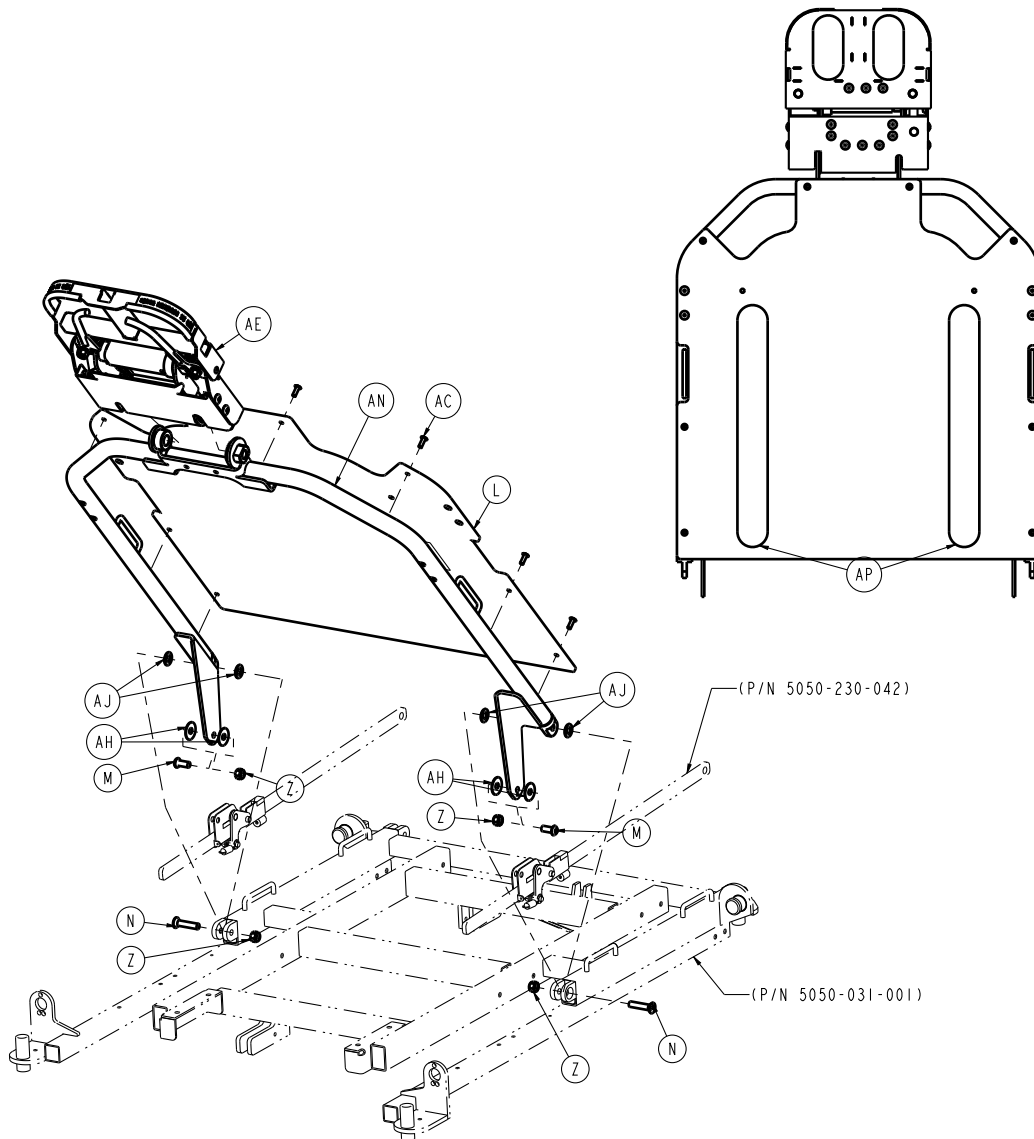


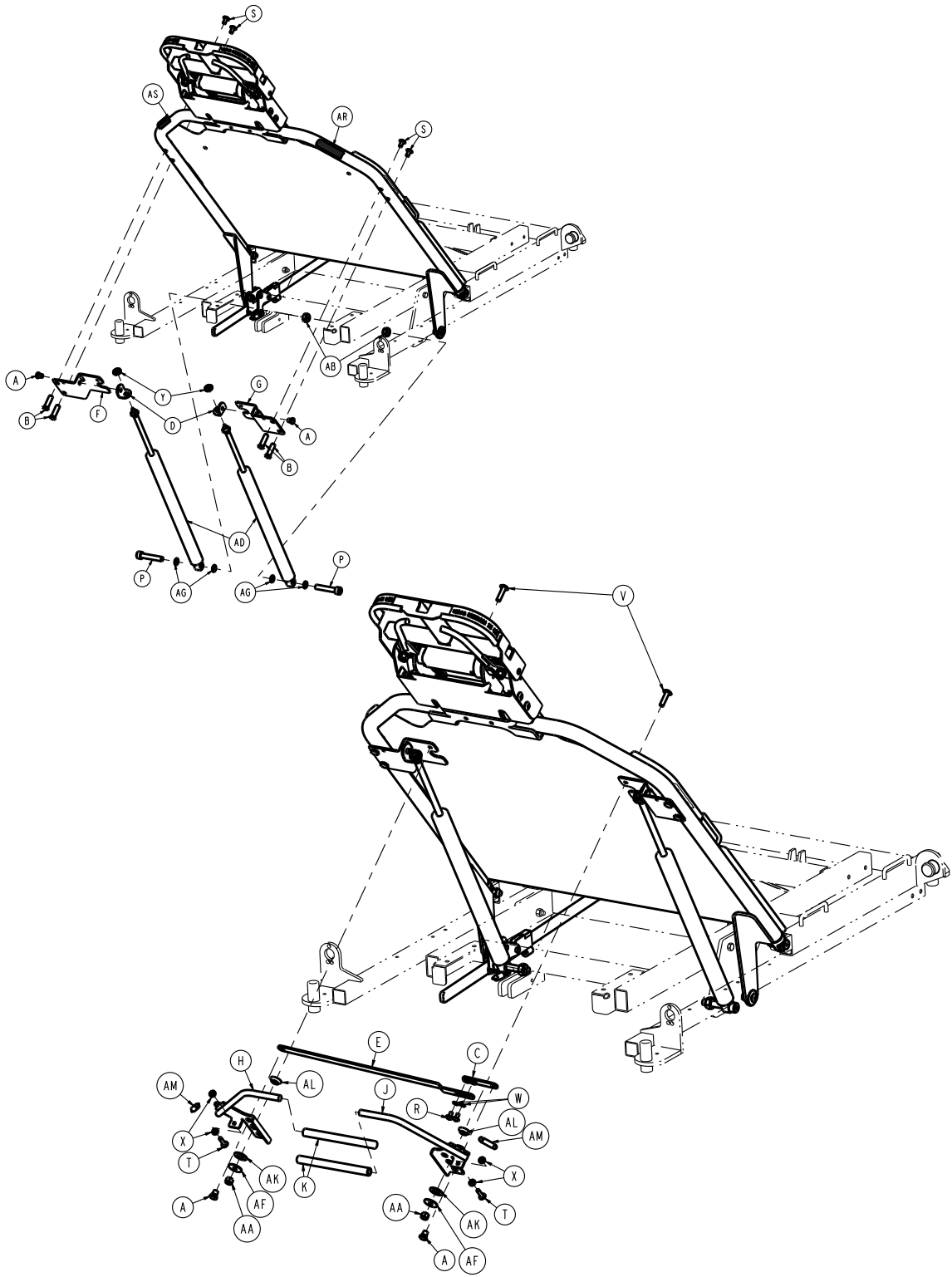
Item	Number	Name	Quantity
A	0004-057-000	Button head cap screw	6
B	0004-097-000	Button head cap screw	2
C	0004-178-000	Button head cap screw	2
D	0004-135-000	Button head cap screw	2
E	0004-303-000	Socket head cap screw	2
F	0004-257-000	Flat head machine screw	2
H	0007-034-000	Truss head machine screw	6
J	0011-132-000	Washer	4
K	0014-002-000	Washer	4
L	0014-009-000	Washer	4
M	0014-019-000	Washer	4
N	0015-037-000	Hex jam nut	2
P	0015-050-000	Hex nut	2
R	0016-036-000	Nylock hex nut	4
S	0016-014-000	Fiberlock hex nut	6
T	0016-028-000	Nylock hex nut	10
W	0016-090-000	Nylock hex nut	2
Y	0021-125-000	Set screw	2
Z	0021-119-000	Set screw	2

Item	Number	Name	Quantity
AA	0021-126-000	Set screw	2
AB	0025-038-000	Dome head rivet	20
AC	0025-050-000	Dome head rivet	14
AD	0027-017-000	Cotter pin	4
AE	0028-076-000	External retaining ring	4
AF	0716-001-286	Cam release pedal	6
AH	0946-035-025	Liner	4
AJ	1001-031-030	Yoke housing	2
AK	0360-031-077	Gas Cylinder	2
AL	1060-001-066	Pneumatic trigger	2
AM	1510-031-028	Yoke	2
AN	5050-030-004	Fowler enclosure, right	1
AP	5050-030-005	Fowler enclosure, left	1
AR	5050-060-008	Fowler skin	1
AS	5050-030-030	Bumper channel, head end	2
AT	5050-133-010	Fowler weldment	1
AW	5050-033-016	Trip bar weldment	1
AY	5050-033-018	Spacer	2
AZ	5050-033-019	Trip bar link	2
BA	5050-090-006	Label, warning, head end/foot end	1
BB	7900-001-102	<b>Velcro®</b> pile	3
BC	5050-133-011	Push bar hinge	2
BD	8839-793-700	Cap screw	4
BE	0016-036-000	Nylock hex nut	4

# 5051 Fowler backrest assembly

5051-132-010 Rev E (Reference only)





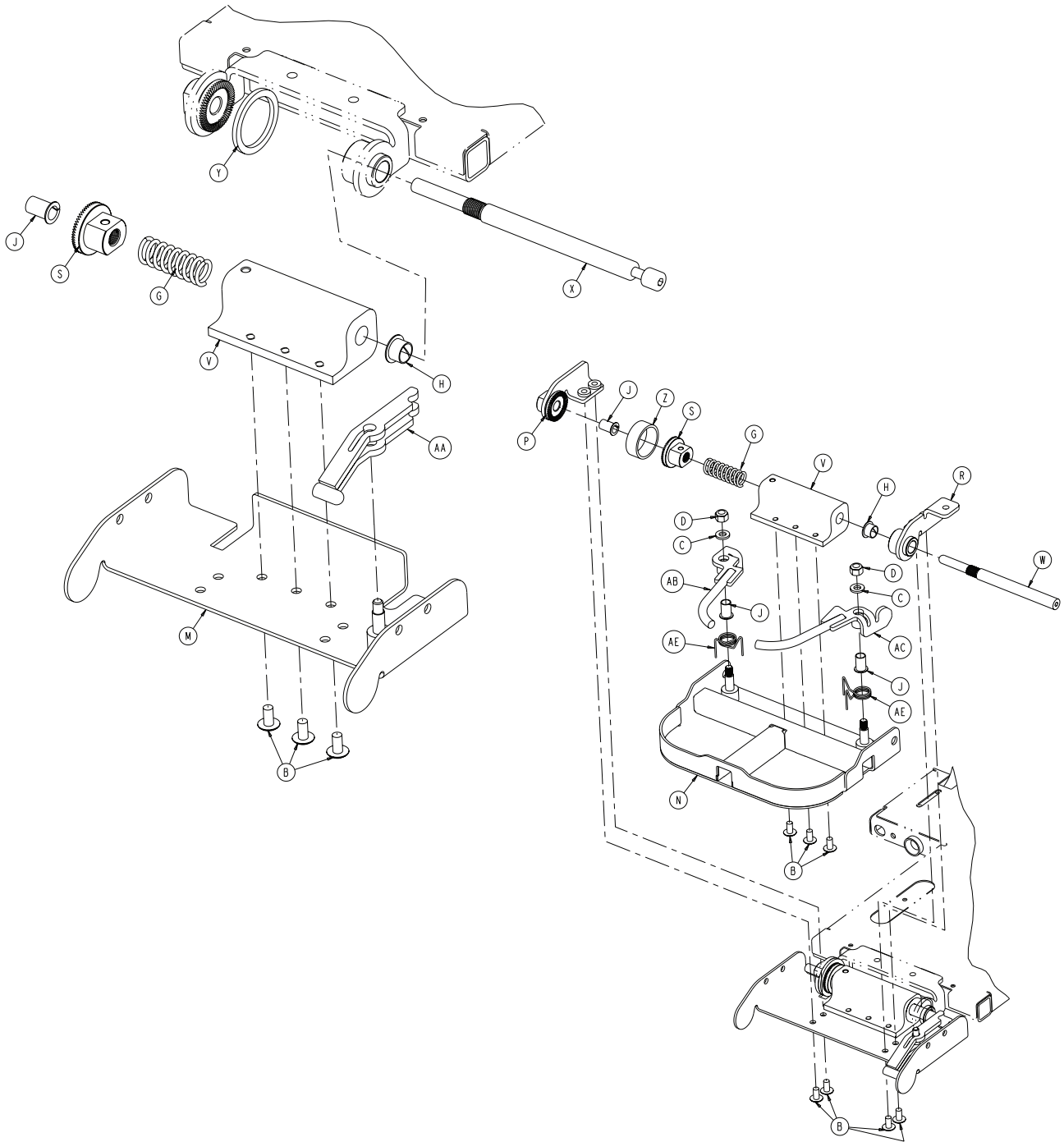
Item	Number	Name	Quantity
A	1069-031-011	Shoulder rivet	4
B	1069-031-012	Barrel nut	4
C	1069-031-031	Short handle adjustment link	1
D	1210-031-103	Pivot tab	2
E	5050-531-032	Long handle adjustment link	1
F	5050-531-041	Handle pivot bracket, left	1

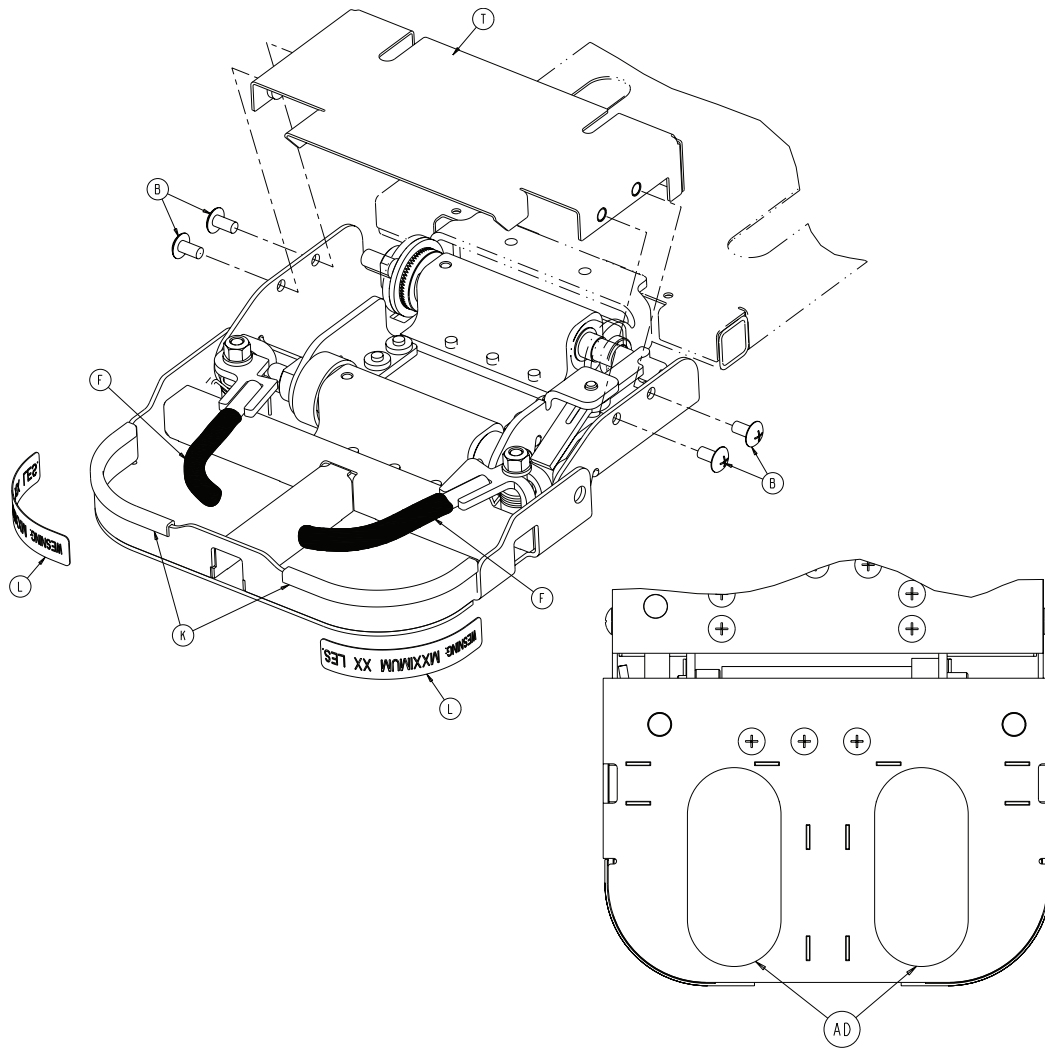
Item	Number	Name	Quantity
G	5050-531-046	Handle pivot bracket, right	1
H	5050-531-060	Handle weldment, left	1
J	5050-531-065	Handle weldment, right	1
K	5050-531-200	Handle cap	2
L	5050-533-055	Fowler skin	1
M	0004-178-000	Button head cap screw	2
N	0004-257-000	Flat head machine screw	2
P	0004-303-000	Socket head cap screw	2
R	0007-019-000	Truss head machine screw	2
S	0007-042-000	Truss head machine screw	4
T	0007-050-000	Truss head machine screw	2
V	0007-062-000	Truss head machine screw	2
W	0013-018-000	External tooth lock washer	2
X	0015-003-000	Hex nut	4
Y	0015-060-000	Hex nut	2
Z	0016-036-000	Nylock hex nut	4
AA	0016-028-000	Hex nut	2
AB	0016-090-000	Nylock hex nut	2
AC	0025-050-000	Dome head rivet	8
AD	0360-031-077	Cylinder	2
AE	1069-133-020	Head piece assembly	1
AF	0011-180-000	Washer	2
AG	0014-009-000	Washer	4
AH	0014-019-000	Washer	4
AJ	0014-020-000	Washer	4
AK	0014-087-000	Washer	2
AL	3001-300-099	Fowler modified bushing	2
AM	0038-436-000	Extension spring	2
AN	5050-633-010	Fowler weldment	1
AP	7900-001-102	<b>Velcro®</b> pile	2.67 ft
AR	1069-060-091	Label, Fowler release, right	1
AS	1069-060-092	Label, Fowler release, left	1



# Dual articulating head piece - 1069-133-020

Rev D (Reference only)



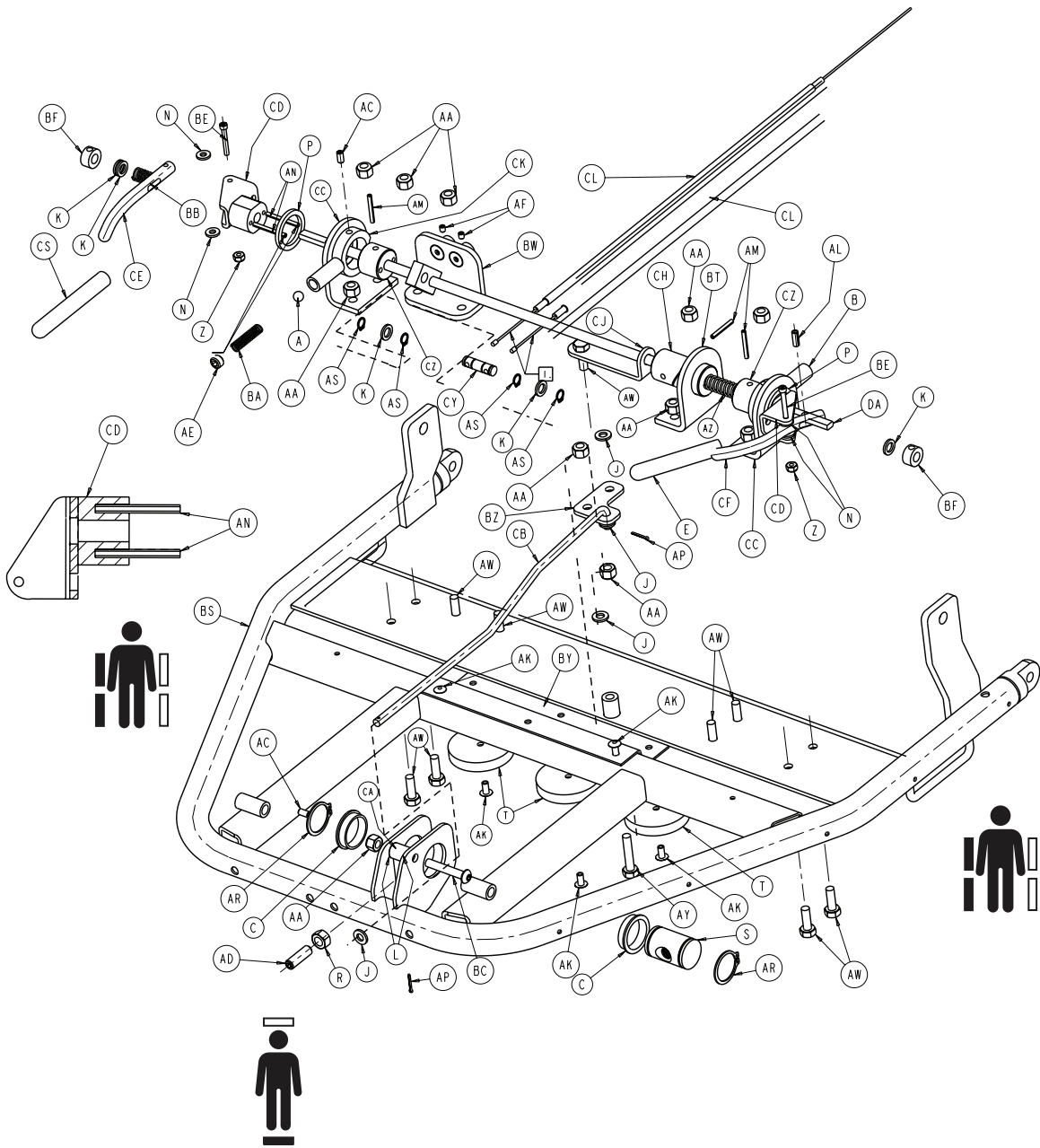


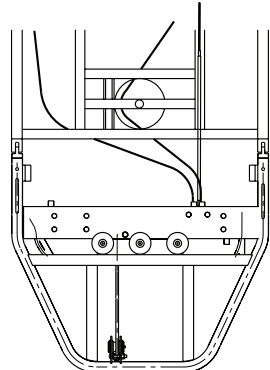
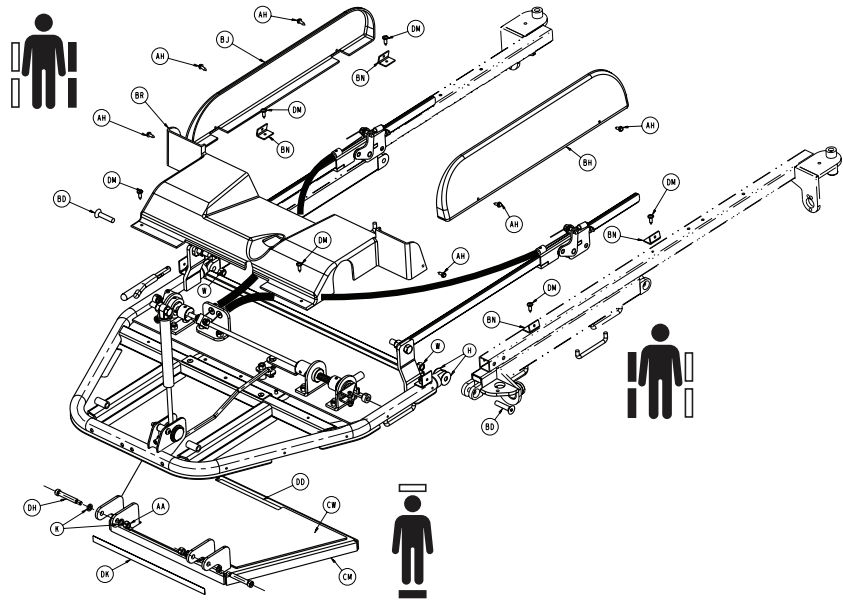
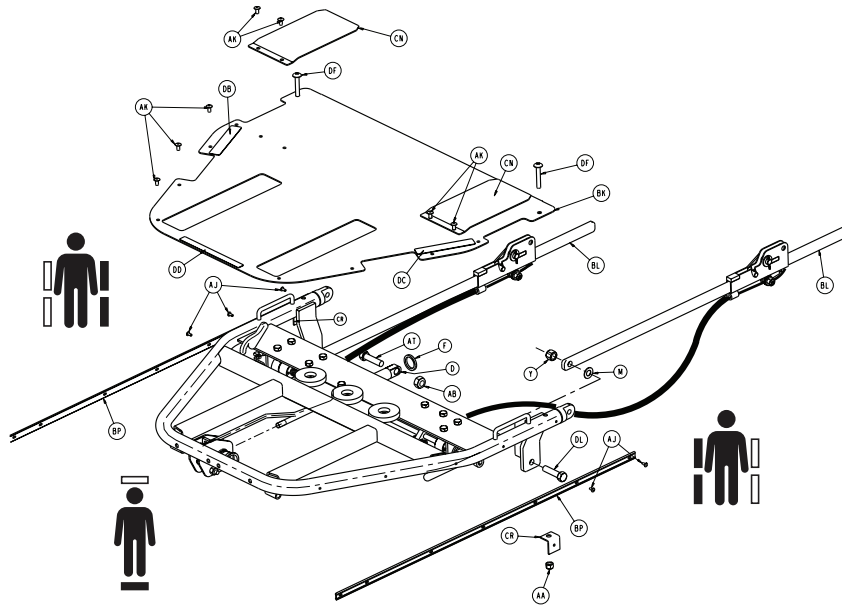
Item	Number	Name	Quantity
B	0007-080-000	Truss head machine screw	14
C	0011-304-000	Washer	2
D	0016-123-000	Hex nut	2
F	0037-200-000	Vinyl cap	2
G	0038-474-000	Compression spring	2
H	0052-086-000	Nyliner	2
J	0052-815-000	Nyliner	4
K	0058-056-000	Edge trim	2
L	1068-091-021	Label, warning, 40 lb max	2
M	1069-133-030	Neck weldment	1
N	1069-133-040	Head weldment	1
P	1069-133-057	Head bracket weldment, right	1
R	1069-133-058	Head bracket weldment, left	1
S	1069-133-073	Threaded gear	2
T	1069-133-075	Headpiece cover	1
V	1069-133-076	Gear housing	2
W	1069-133-083	Head shaft	1
X	1069-133-084	Neck shaft	1

Item	Number	Name	Quantity
Y	1069-133-085	Neck spacer	1
Z	1069-133-088	Head spacer	1
AA	1069-133-100	Link weldment	1
AB	1069-133-110	Handle weldment, right	1
AC	1069-133-115	Handle weldment, left	1
AD	7900-001-102	<b>Velcro®</b> pile	.71 ft
AE	1069-133-121	Handle torsion spring	2

# Independent leg/stationary foot section assembly

5050-037-011 Rev B (Reference only)





Item	Number	Name	Quantity
A	0081-247-000	Ball bearing	1
B	0938-001-401	Collar	1
C	0946-035-025	Liner	2
D	1010-031-077	Gas Cylinder	1

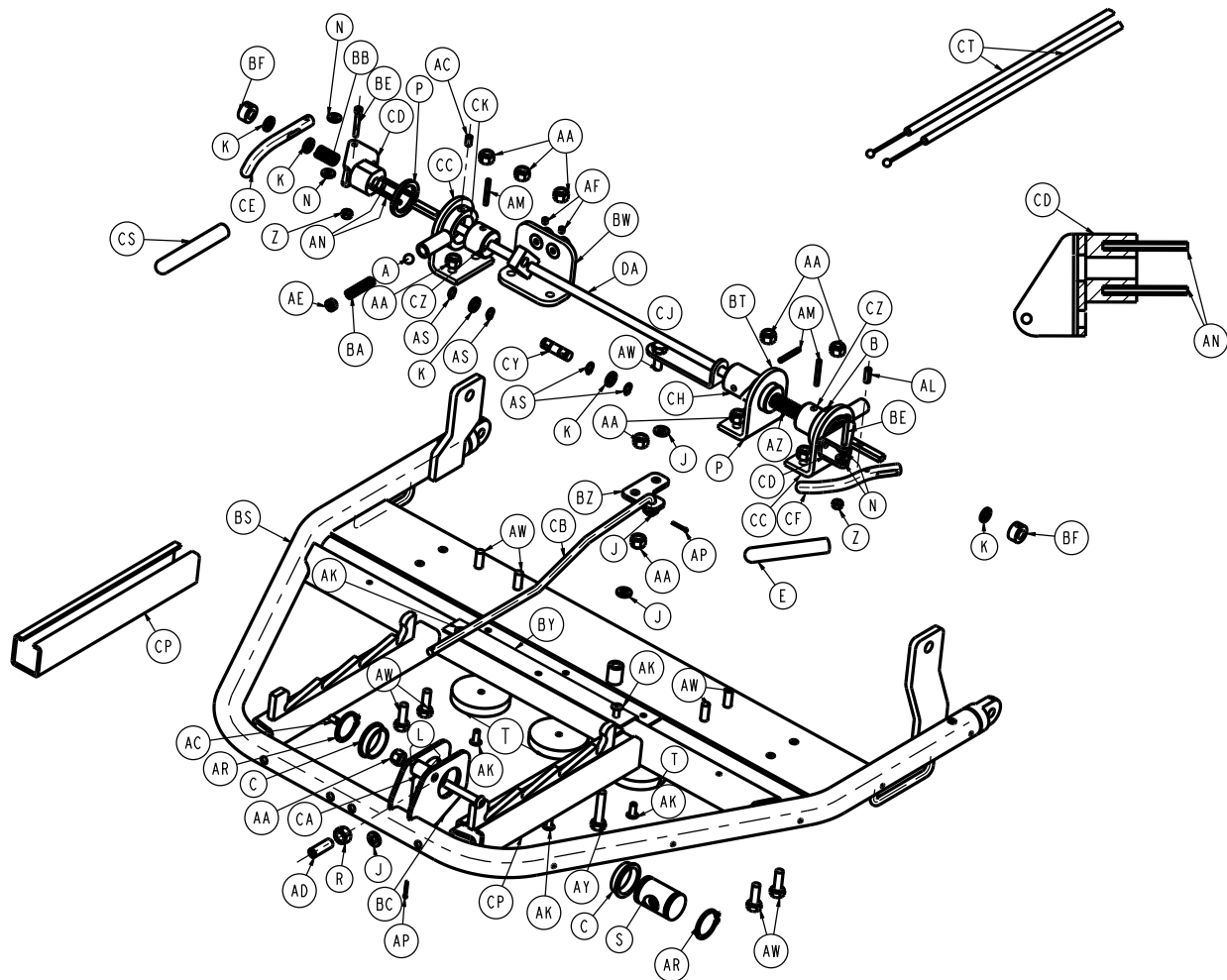
Item	Number	Name	Quantity
E	1068-234-036	Head piece handle grip	1
F	0011-379-000	Steel washer	1
H	0014-019-000	Nylon washer	4
J	0014-002-000	Nylon washer	4
K	0014-003-000	Nylon washer	8
L	0014-004-000	Nylon washer	2
M	0014-020-000	Nylon washer	2
N	0014-056-000	Nylon washer	4
P	0011-427-000	Nylon washer	2
R	0015-050-000	Hex nut	1
S	1510-031-028	Yoke	1
T	1550-001-014	Magnet	3
W	0016-036-000	Nylock hex nut	2
Y	0016-035-000	Nylock hex nut	2
Z	0016-023-000	Nylock hex nut	2
AA	0016-028-000	Nylock hex nut	15
AB	0016-090-000	Nylock hex nut	1
AC	0021-119-000	Set screw	2
AD	0021-126-000	Set screw	1
AE	0021-141-000	Set screw	1
AF	0021-008-000	Set screw	2
AH	0023-071-000	Hex washer head screw	6
AJ	0025-038-000	Blind rivet	14
AK	0025-079-000	Blind rivet	17
AL	0026-233-000	Roll pin	1
AM	0026-007-000	Roll pin	3
AN	0026-008-000	Roll pin	4
AP	0027-004-000	Cotter pin	2
AR	0028-076-000	External retaining ring	2
AS	0028-089-000	External retaining ring	4
AT	0003-209-000	Hex head cap screw	1
AW	0003-050-000	Hex head cap screw	9
AY	0003-074-000	Hex head cap screw	1
AZ	0038-331-000	Compression spring	1
BA	0038-332-000	Compression spring	1
BB	0038-334-000	Compression spring	1
BC	0004-135-000	Socket button head cap screw	1
BD	0004-257-000	Flat head socket cap screw	2
BE	0004-082-000	Socket head cap screw	2
BF	0042-022-000	Locking collar	2
BH	5050-030-001	Side enclosure, right	1
BJ	5050-030-002	Side enclosure, left	1
BK	5050-030-007	Foot skin	1
BL	5050-230-042	Locking link assembly ( <i>Locking link assembly (page 82)</i> )	2
BN	5050-030-028	Side enclosure bracket	4

Item	Number	Name	Quantity
BP	5050-030-031	Foot end bumper channel	2
BR	5050-030-032	Foot section cover	1
BS	5050-037-010	Independent leg/stationary foot weldment	1
BT	5050-032-012	Swivel weldment	1
BW	5050-032-015	Cable bracket weldment	1
BY	5050-032-017	Magnet plate	1
BZ	5050-032-018	Spring rocker	1
CA	5050-032-019	Spring actuator	1
CB	5050-032-022	Tie rod	1
CC	5050-032-023	L-bracket weldment	2
CD	5050-032-027	Handle mount weldment	2
CE	5050-032-030	Handle, left	1
CF	5050-032-032	Handle, right	1
CH	5050-032-034	Nylon swivel	1
CJ	5050-032-035	Spring pusher	1
CK	5050-032-036	Stop collar	1
CL	5050-032-039	Long cable with cover	2
CM	5050-032-046	Foot rest weldment	1
CN	5050-032-051	Slide guide	2
CR	5050-032-053	Foot cover L-bracket	2
CS	5050-032-054	Handle cover, left	1
CW	5050-032-057	Foot plate pad	1
CY	5050-032-060	Cable pivot	1
CZ	5050-032-062	Handle timing swivel	2
DA	5050-032-063	Handle rod weldment	1
DB	5050-090-004	Label, foot section, right	1
DC	5050-090-005	Label, foot section, left	1
DD	5050-090-006	Label, warning	1
DE	5050-090-007	Label, warning, footrest	1
DF	0007-034-000	Truss head machine screw	2
DH	0008-044-000	Socket head shoulder screw	2
DK	5050-032-065	Footrest tape	1
DL	0003-025-000	Hex head cap screw	2
DM	0023-256-000	Pan head sheet metal screw	6

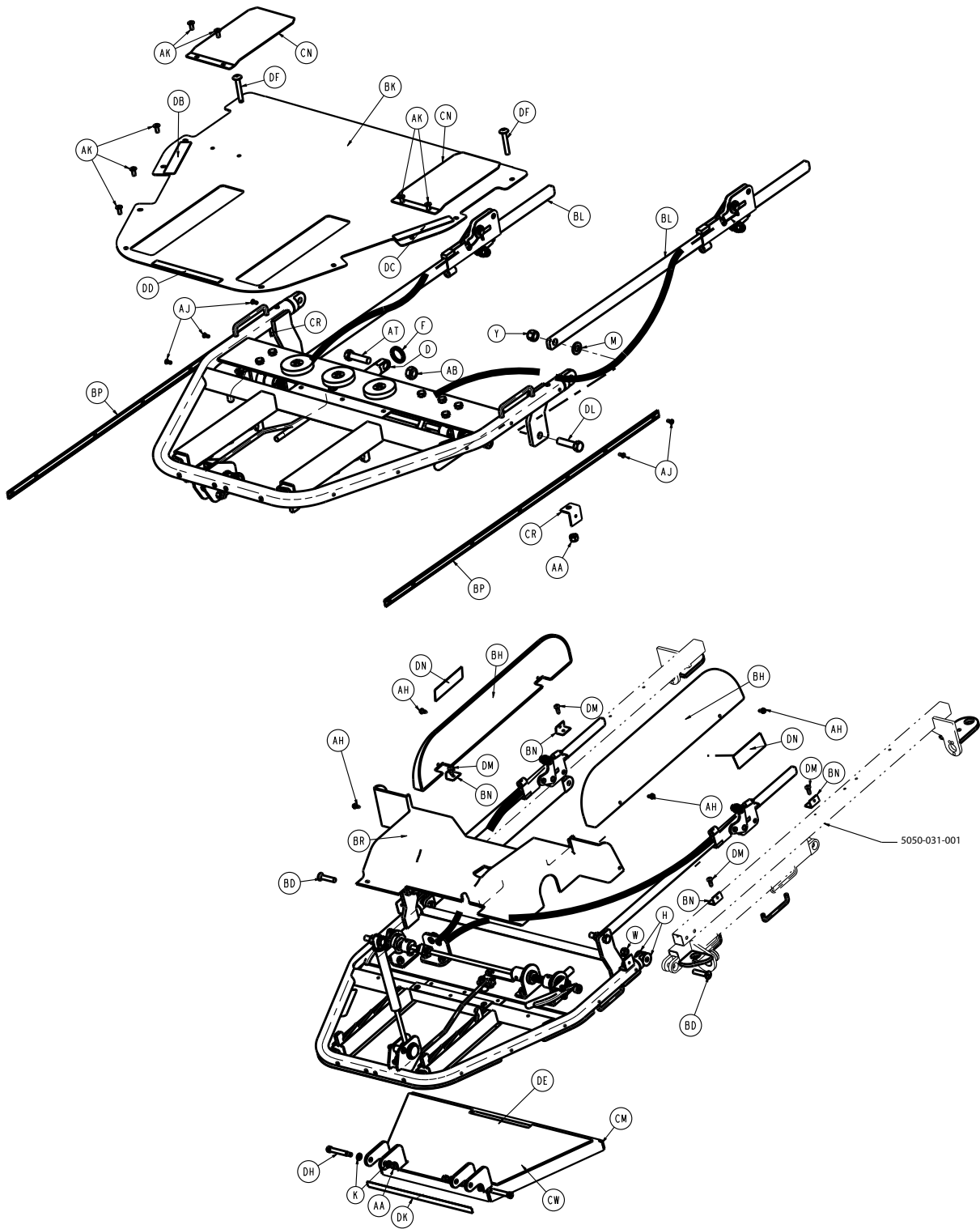
Cable routing detail: Route cables as shown. Patient right side to be routed under butt section but over bellows, as indicated.

# Independent leg/adjustable foot section assembly - 5050-032-001

Rev K (Reference only)







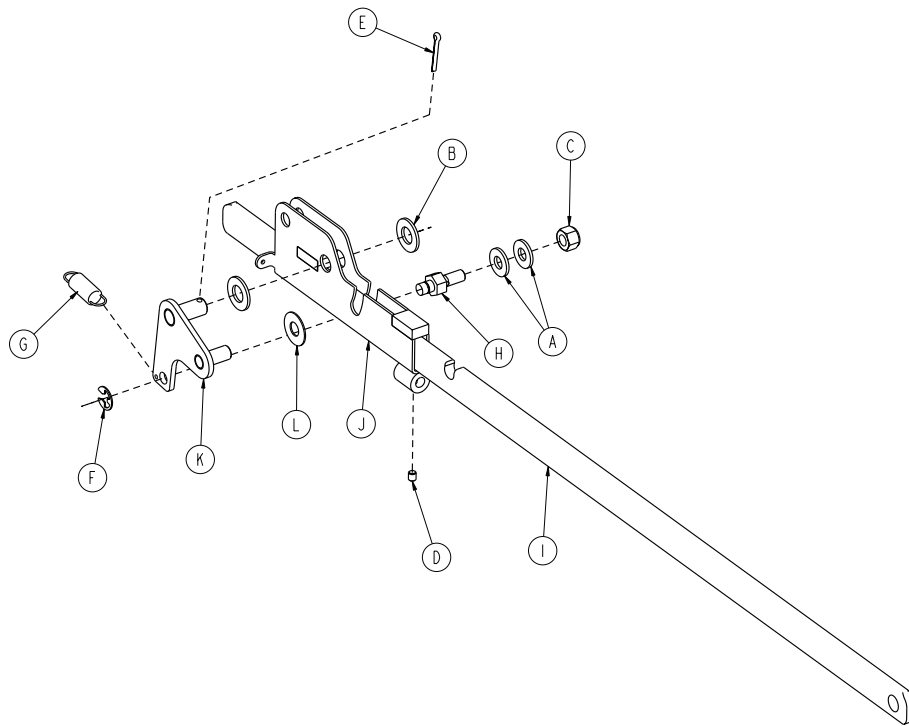
Item	Number	Name	Quantity
A	0081-247-000	Ball bearing	1
B	0938-001-401	Collar	1
C	0946-035-025	Liner	2
D	1010-031-077	Gas cylinder	1
E	1068-234-036	Handle grip	1
F	0011-379-000	Steel washer	1
H	0014-019-000	Nylon washer	4

Item	Number	Name	Quantity
J	0014-002-000	Nylon washer	4
K	0014-003-000	Nylon washer	8
L	0014-004-000	Nylon washer	2
M	0014-021-000	Nylon washer	2
N	0014-056-000	Nylon washer	4
P	0011-427-000	Nylon washer	2
R	0015-050-000	Hex nut	1
S	1510-031-028	Yoke	1
T	1550-001-014	Magnet	3
W	0016-036-000	Nylock hex nut	2
Y	0016-035-000	Nylock hex nut	2
Z	0016-023-000	Nylock hex nut	2
AA	0016-028-000	Fiberlock hex nut	13
AB	0016-090-000	Nylock hex nut	1
AC	0021-119-000	Set screw	2
AD	0021-126-000	Set screw	1
AE	0021-141-000	Set screw	1
AF	0021-008-000	Set screw	2
AH	0023-071-000	Hex washer head tapping screw	6
AJ	0025-038-000	Blind rivet	14
AK	0025-079-000	Blind rivet	17
AL	0026-233-000	Roll pin	1
AM	0026-007-000	Roll pin	3
AN	0026-008-000	Roll pin	4
AP	0027-004-000	Cotter pin	2
AR	0028-076-000	External retaining ring	2
AS	0028-089-000	External retaining ring	4
AT	0003-209-000	Hex head cap screw	1
AW	0003-050-000	Hex head cap screw	9
AY	0003-074-000	Hex head cap screw	1
AZ	0038-331-000	Compression spring	1
BA	0038-332-000	Compression spring	1
BB	0038-334-000	Compression spring	1
BC	0004-135-000	Socket button head cap screw	1
BD	0004-257-000	Flat head socket cap screw	2
BE	0004-082-000	Socket head cap screw	2
BF	0042-022-000	Locking collar	2
BH	5050-030-001	Right side enclosure	2
BK	5050-030-007	Foot skin	1
BL	5050-230-042	<i>Locking link assembly (page 82)</i>	2
BN	5050-030-028	Side enclosure bracket	4
BP	5050-030-031	Foot end bumper channel	2
BR	5050-030-032	Foot section cover	1
BS	5050-032-010	Independent leg/adjustable foot weldment	1
BT	5050-032-012	Swivel weldment	1

Item	Number	Name	Quantity
BW	5050-032-015	Cable bracket weldment	1
BY	5050-032-017	Magnet plate	1
BZ	5050-032-018	Spring rocker	1
CA	5050-032-019	Spring actuator	1
CB	5050-032-022	Tie rod	1
CC	5050-032-023	L-bracket weldment	2
CD	5050-032-027	Handle mount weldment	2
CE	5050-032-030	Handle, left	1
CF	5050-032-032	Handle, right	1
CH	5050-032-034	Nylon swivel	1
CJ	5050-032-035	Spring pusher	1
CK	5050-032-036	Stop collar	1
CM	5050-032-046	Foot rest weldment	1
CN	5050-032-051	Slide guide	2
CP	5050-032-052	Channel	2
CR	5050-032-053	Foot cover L-bracket	2
CS	5050-032-054	Handle cover, left	1
CT	5050-032-040	Independent leg release cable	2
CW	5050-032-057	Foot plate pad	1
CY	5050-032-060	Cable pivot	1
CZ	5050-032-062	Handle timing swivel	2
DA	5050-032-063	Handle rod weldment	1
DB	5050-090-004	Label, foot section, right	1
DC	5050-090-005	Label, foot section, left	1
DD	5050-090-006	Label, warning	1
DE	5050-090-007	Label, warning, footrest	1
DF	0007-034-000	Truss head machine screw	2
DH	0008-044-000	Socket head shoulder screw	2
DK	5050-032-065	Footrest tape	1
DL	0003-025-000	Hex head cap screw	2
DM	0023-256-000	Pan head sheet metal screw	6
DN	0946-001-060	Label, Stryker logo	2

# Locking link assembly

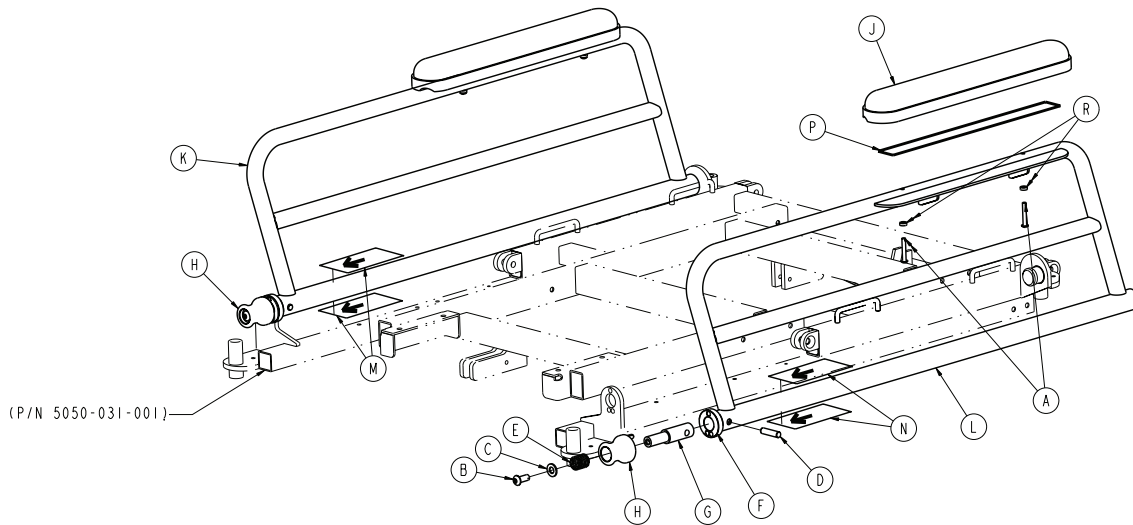
5050-230-042 Rev A (Reference only)



Item	Number	Name	Quantity
A	0011-077-000	Steel washer	2
B	0014-021-000	Nylon washer	2
C	0016-047-000	Nylon lock nut	1
D	0021-008-000	Set screw	1
E	0027-015-000	Cotter pin	1
F	0028-114-000	E-ring	1
G	0038-330-000	Extension spring	1
H	1550-033-018	Cable retainer	1
I	5050-230-014	Link bar	1
J	5050-230-040	Latch housing weldment	1
K	5050-230-041	Latch weldment	1
L	0011-179-000	Nylon washer	1

# Non-transfer siderail assembly

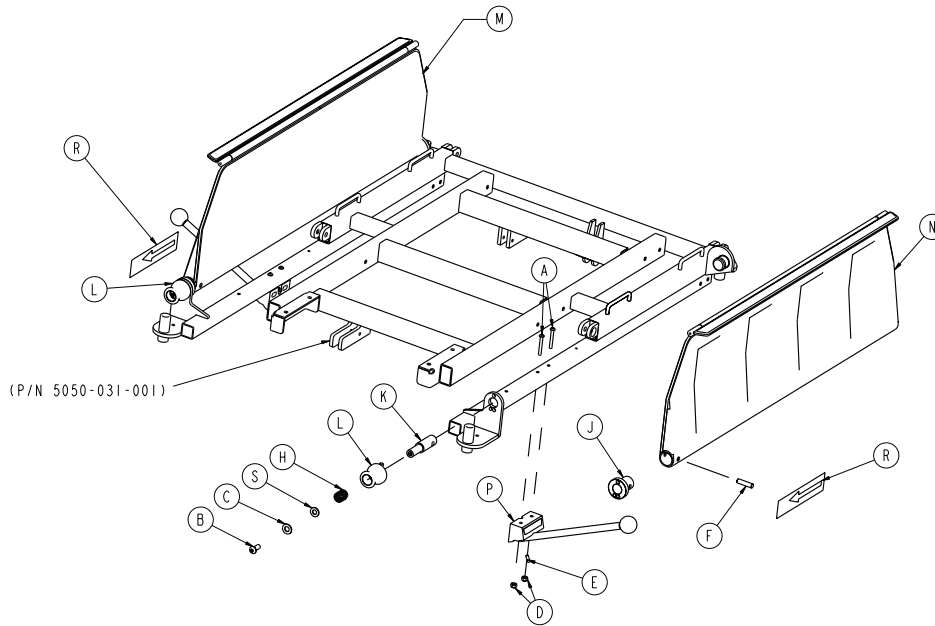
5050-026-070 Rev G (Reference only)



Item	Number	Name	Quantity
A	0004-215-000	Button head cap screw	4
B	0004-652-000	Hex socket button head cap screw	2
C	0011-003-000	Flat washer	2
D	0026-243-000	Dowel pin	2
E	0038-338-000	Compression spring	2
F	5050-026-002	Latch housing insert	2
G	5050-026-003	Latch pivot shaft	2
H	5050-026-037	Left release knob	2
J	5050-026-050	Arm pad, siderail	2
K	5050-226-028	Non-transfer siderail, left	1
L	5050-226-125	Non-transfer siderail, right	1
M	5050-090-002	Label, release, left	2
N	5050-090-003	Label, release, right	2
P	0044-045-000	Foam tape (1/2")	2
R	0014-118-000	Flat washer	4

# Transfer siderail assembly option - 5050-126-060

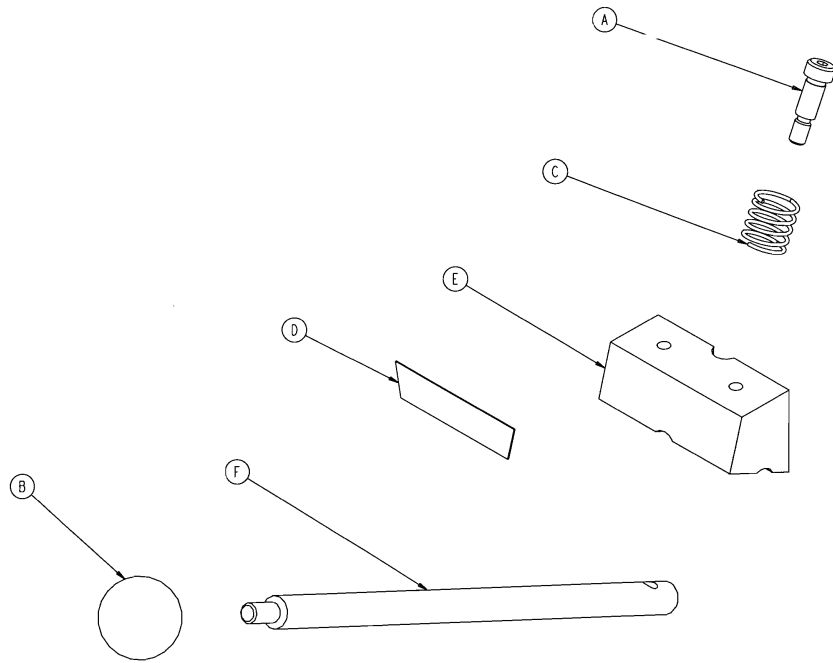
Rev A (Reference only)



Item	Number	Name	Quantity
A	0002-100-000	Pan head machine screw	4
B	0004-652-000	Hex socket button head cap screw	2
C	0011-003-000	Steel washer	2
D	0016-003-000	Fiberlock nut	4
E	0026-233-000	Roll pin	2
F	0026-259-000	Dowel	2
H	0038-338-000	Compression spring	2
J	5050-026-002	Latch housing insert	2
K	5050-026-003	Latch pivot shaft	2
L	5050-026-037	Release knob assembly, left	2
M	5050-126-051	Transfer siderail assembly, left	1
N	5050-126-052	Transfer siderail assembly, right	1
P	5050-026-080	<i>Board support assembly - 5050-026-080</i> (page 85)	2
R	5050-091-003	Label, siderail release	4
S	0014-021-000	Nylon washer	2

# Board support assembly - 5050-026-080

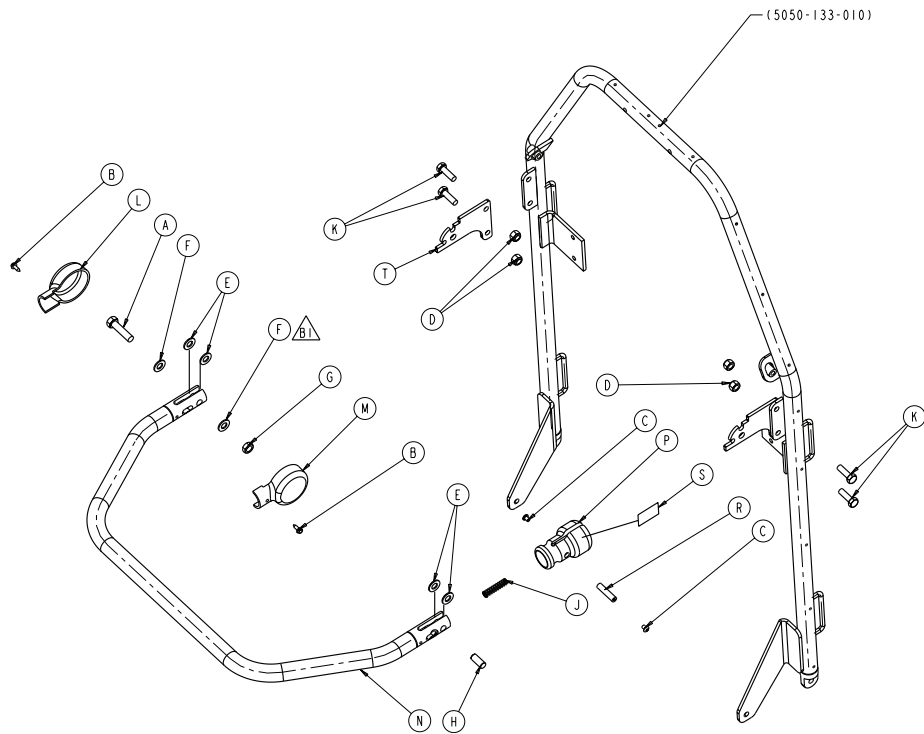
Rev A (Reference only)



Item	Number	Name	Quantity
A	0008-015-000	Socket head shoulder bolt	1
B	0033-002-000	Ball knob	1
C	0038-368-000	Compression spring	1
D	1010-024-014	Label, warning	1
E	5050-026-081	Support block	1
F	5050-026-082	Support arm	1
*(D for EU))	1010-091-014	Euro warning label	1

# Adjustable push bar assembly

5050-139-010 Rev B (Reference only)

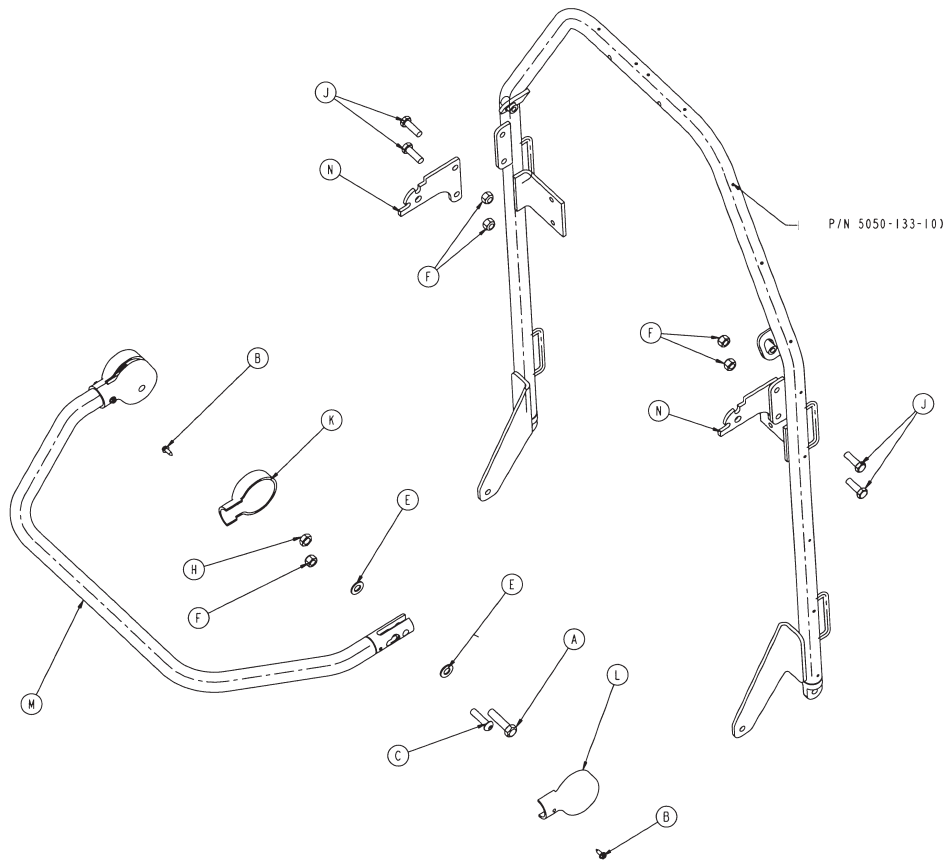


Item	Number	Name	Quantity
A	0003-025-000	Hex head cap screw	1
B	0023-071-000	Self-tapping screw	2
C	0004-131-000	Hex socket button head cap screw	2
D	0016-036-000	Nylon hex nut	4
E	0014-020-000	Nylon washer	4
F	0014-021-000	Nylon washer	2
G	0016-089-000	Centerlock hex nut	1
H	0026-246-000	Dowel pin	1
J	0038-337-000	Compression spring	1
K	8839-793-700	Hex head cap screw	4
L	5050-030-018	Handle cover, left	1
M	5050-030-019	Handle cover, right	1
N	5050-033-012	Push handle weldment	1
P	5050-033-020	Push bar lock	1
R	5050-033-021	Push bar lock pin	1
S	5050-090-011	Label, release	1
T	5050-133-011	Push bar hinge clip	2



# Stationary push bar assembly

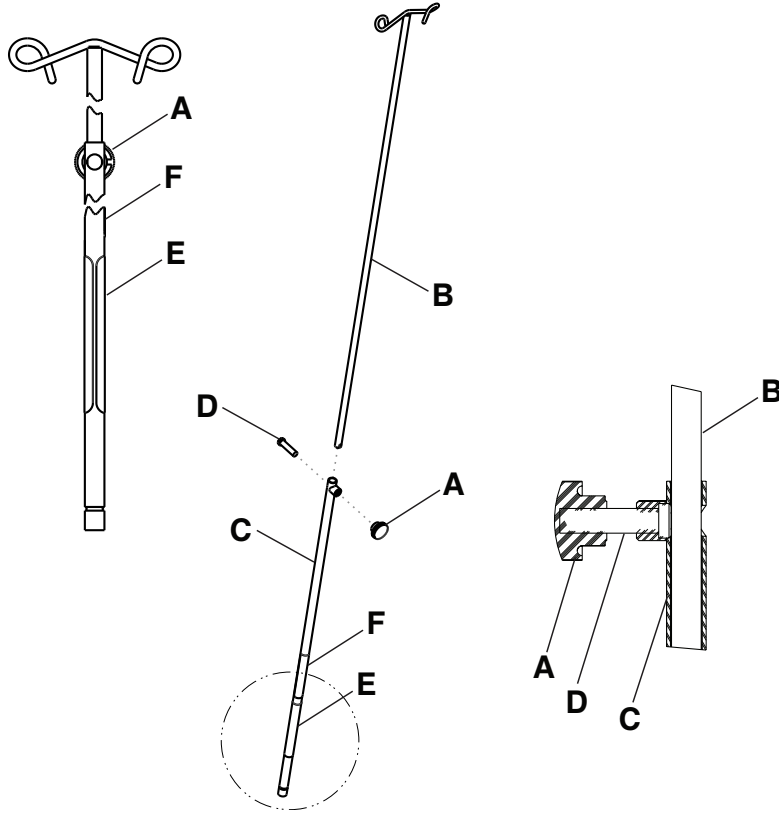
5050-138-010 Rev A (Reference only)



Item	Number	Name	Quantity
A	0003-025-000	Hex head cap screw	2
B	0023-071-000	Self tapping screw	4
C	0004-130-000	Hex socket button head cap screw	2
E	0014-021-000	Nylon washer	4
F	0016-036-000	Nylon hex nut	6
H	0016-089-000	Hex nut	2
J	8839-793-700	Hex head cap screw	4
K	5050-030-018	Handle cover, left	2
L	5050-030-019	Handle cover, right	2
M	5050-033-012	Push handle weldment	1
N	5050-133-011	Push bar hinge clip	2

# HAVASU™ IV pole, removable - 0390-025-000

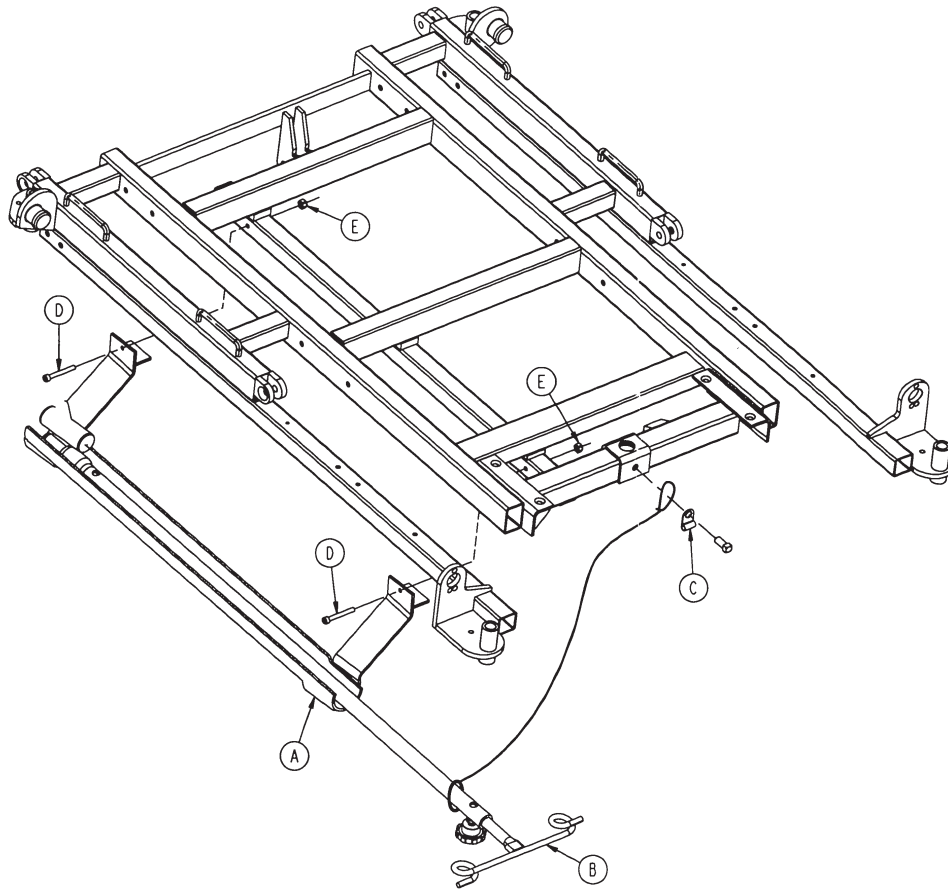
Rev AA (Reference only)



Item	Number	Name	Quantity
A	0390-003-056	Knob	1
B	0390-003-053	Double IV assembly	1
C	0393-003-043	Chrome tube assembly	1
D	0004-496-000	Socket head cap screw	1
E	0390-125-011	Label, IV pole, removable	1
F	108900350901	Label, EAR	1

# IV pole assembly, tethered - 5050-075-000

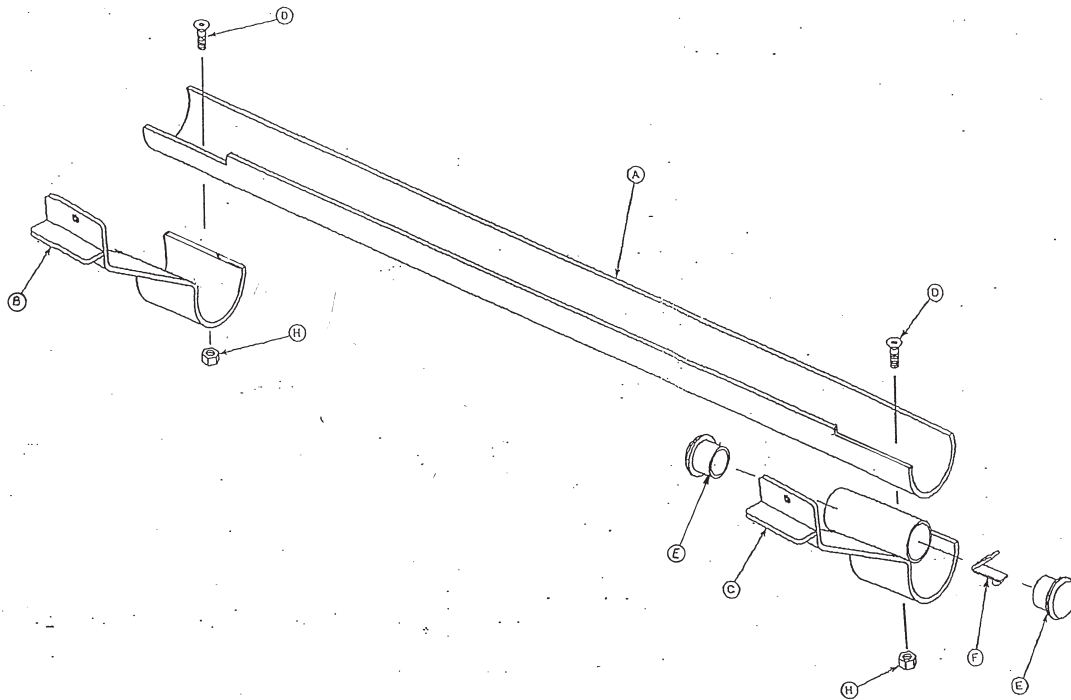
5050-075-001 Rev A (Reference only)



Item	Number	Name	Quantity
A	5050-075-005	IV pole trough assembly, tethered (page 1 90)	1
B	1001-087-018	HAVASU IV pole assembly, tethered - 1001-087-018 (page 91)	1
C	0034-263-000	Cable clamp	1
D	0004-085-000	Socket head cap screw	2
E	0016-003-000	Fiberlock nut	2

# IV pole trough assembly, tethered

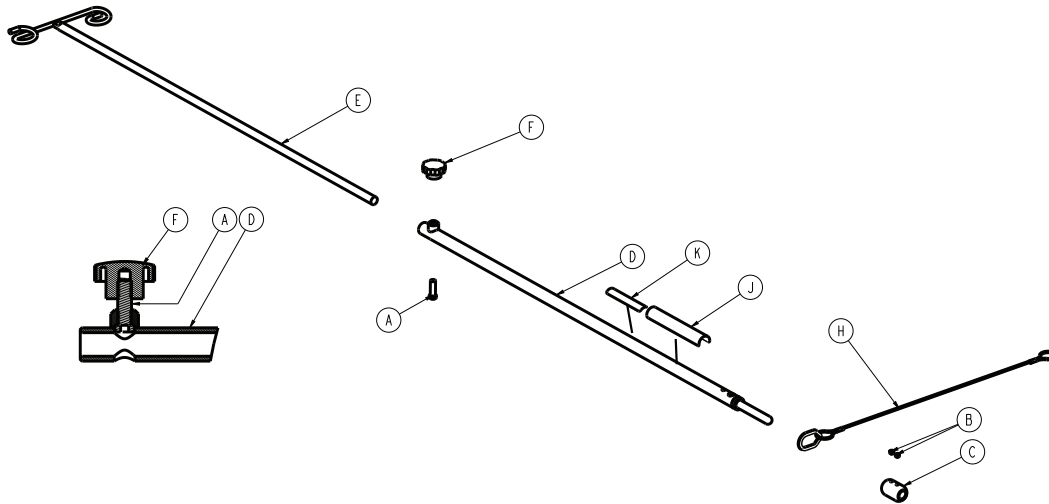
5050-075-005 Rev - (Reference only)



Item	Number	Name	Quantity
A	1001-087-023	Machined sleeve	1
B	5050-075-002	IV bracket, head end	1
C	1001-087-015	Mounting bracket assembly	1
D	0001-022-000	Flat head machine screw	2
E	0037-002-000	Tube plug	2
F	0946-040-110	Lock clip	1
H	0016-014-000	Hex nut	2

# HAVASU IV pole assembly, tethered - 1001-087-018

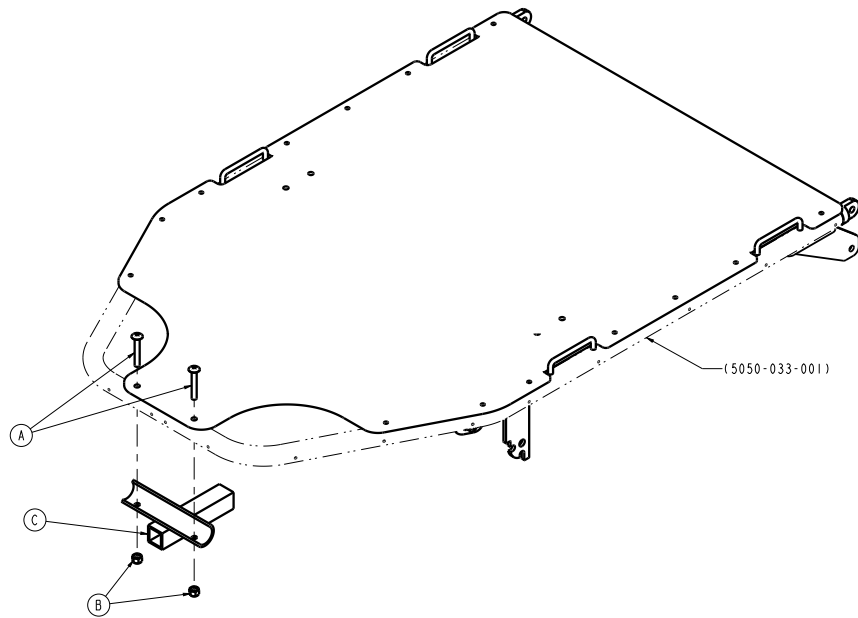
Rev AA (Reference only)



Item	Number	Name	Quantity
A	0004-495-000	Socket head cap screw	1
B	0021-016-000	Set screw	2
C	0741-047-014	Retainer	1
D	0938-001-305	Pole socket assembly	1
E	0938-001-308	Pole assembly	1
F	1211-117-016	Plastic knob	1
H	1211-117-020	Cable assembly	1
J	505000350901	Label, specification	1
K	505000350902	Label, EAR	1

# Wrist rest bracket assembly - 5050-050-000

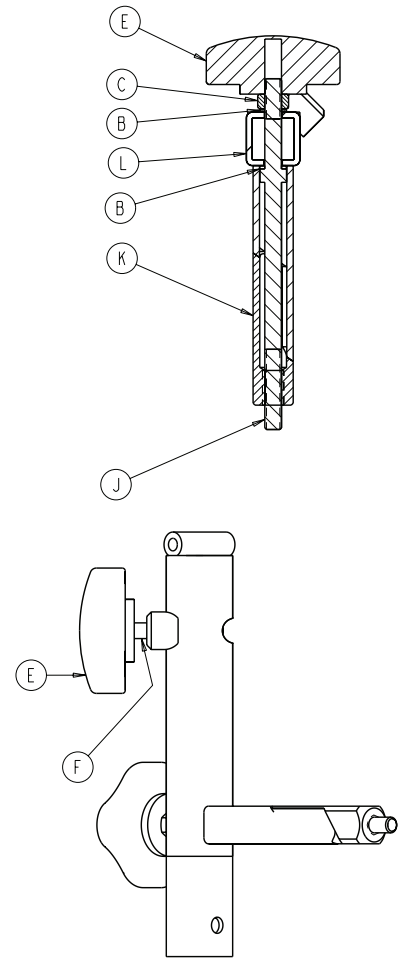
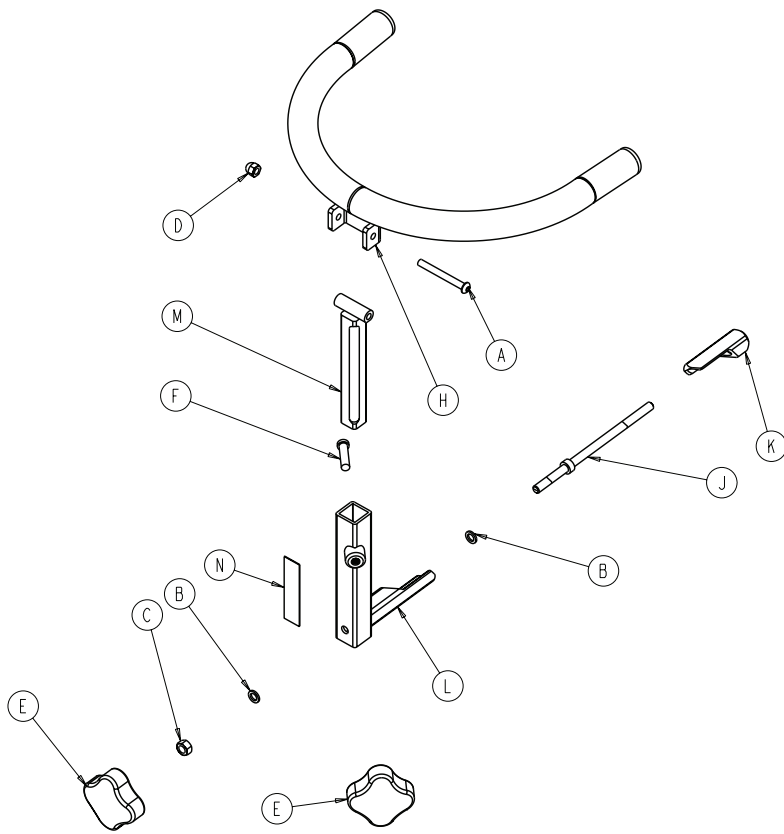
5050-050-001 Rev A (Reference only)



Item	Number	Name	Quantity
A	0007-020-000	Truss head machine screw	2
B	0016-028-000	Nylon lock nut	2
C	5050-050-002	Mounting bracket	1

# Superior wrist rest option - 1068-250-000

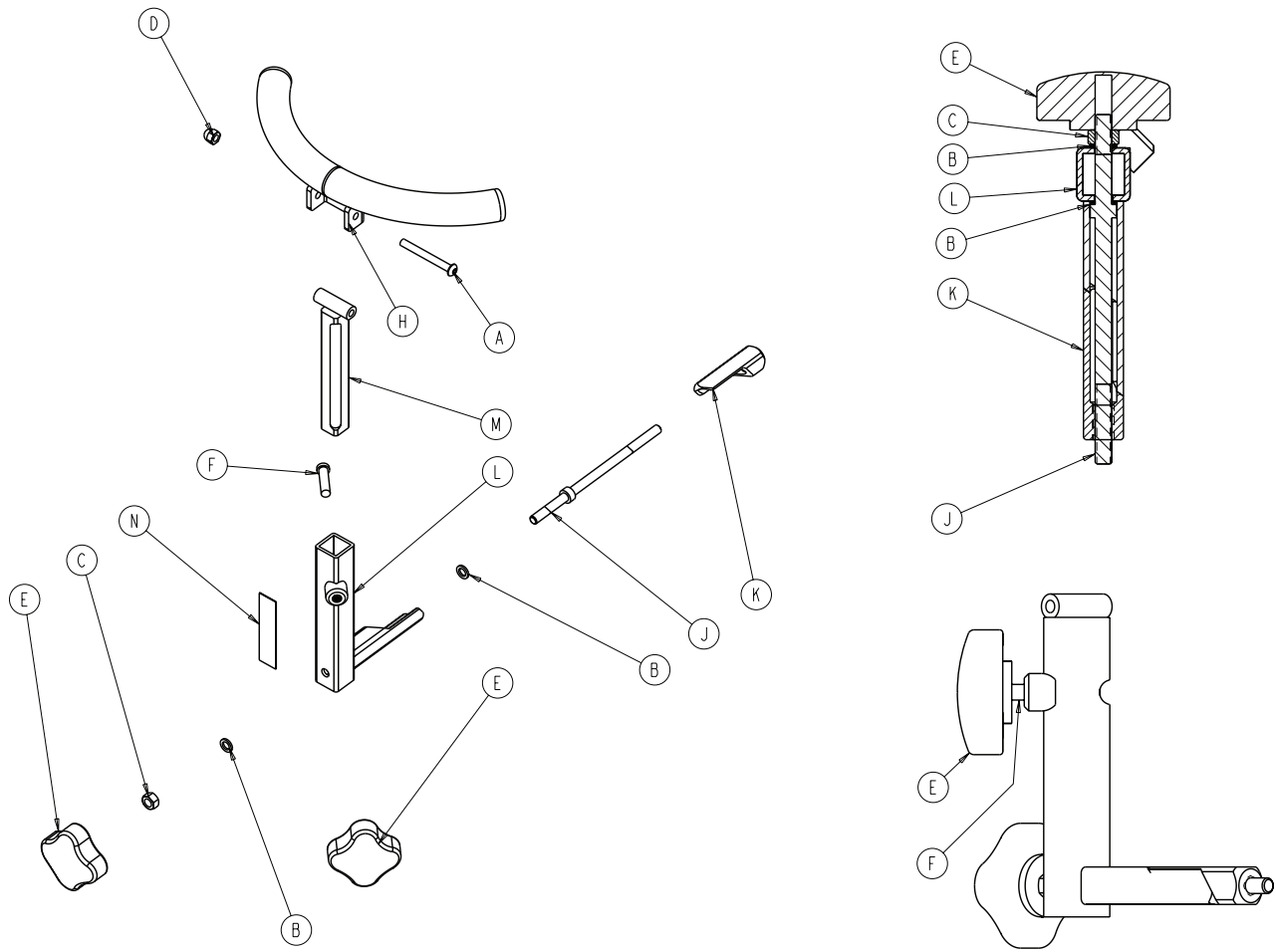
Rev A (Reference only)



Item	Number	Name	Quantity
A	0004-163-000	Button socket head cap screw	1
B	0014-003-000	Washer	2
C	0015-012-000	Hex nut	1
D	0017-004-000	Acorn nut	1
E	0024-054-000	Female insert knob	2
F	0004-371-000	Socket head cap screw	1
H	1068-050-055	Support bar wrist rest weldment	1
J	1068-250-041	Wrist rest wedge bolt	1
K	1068-250-042	Wrist rest lock wedge	1
L	1068-250-050	Base tube weldment	1
M	1068-252-055	Support bar wrist rest casting	1
N	1068-290-050	Label, specification	1

# Temporal wrist rest option - 1068-251-000

Rev A (Reference only)

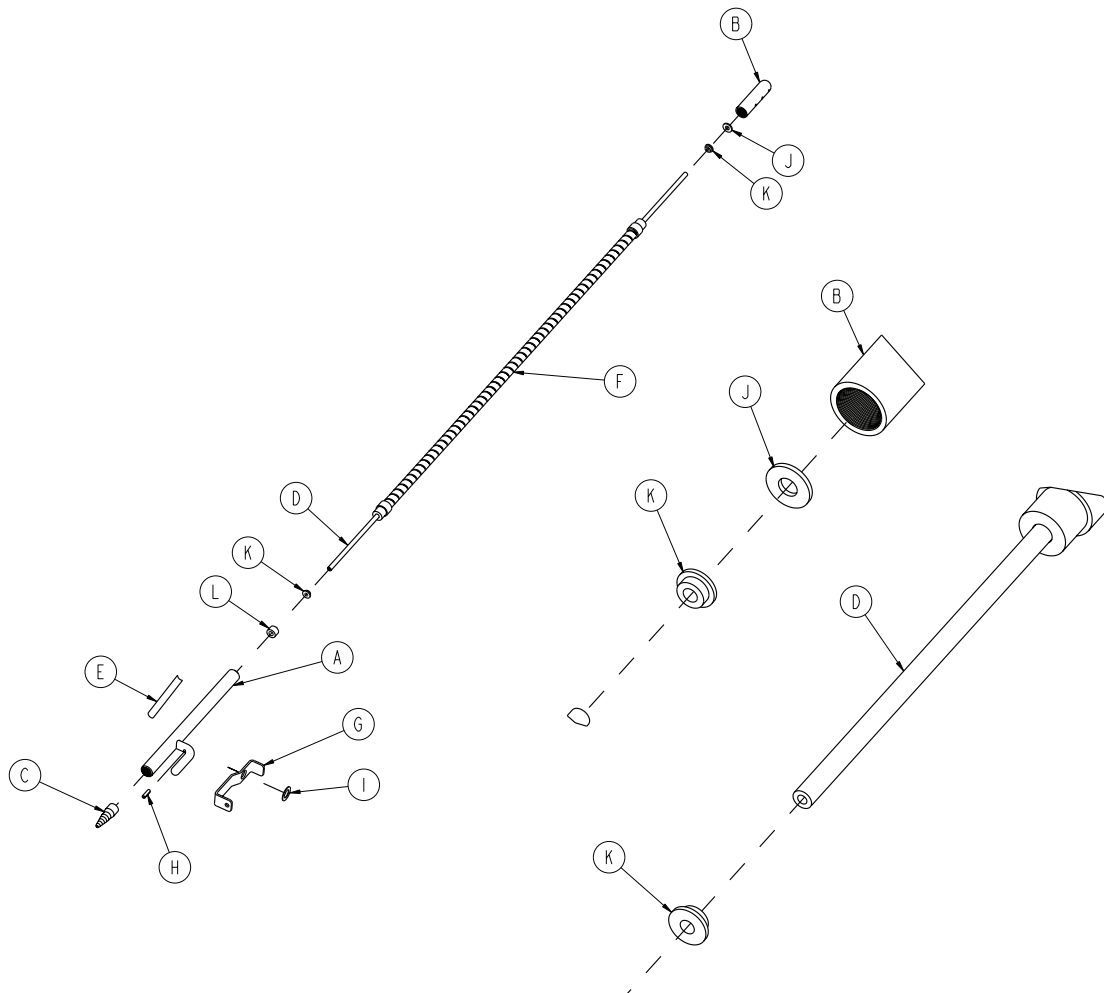


Item	Number	Name	Quantity
A	0004-163-000	Button socket head cap screw	1
B	0014-003-000	Washer	2
C	0015-012-000	Hex nut	1
D	0017-004-000	Acorn nut	1
E	0024-054-000	Female insert knob	2
F	0004-371-000	Socket head cap screw	1
H	1068-051-050	Temporal tube weldment	1
J	1068-250-041	Wrist rest wedge bolt	1
K	1068-250-042	Wrist rest lock wedge	1
L	1068-250-050	Base tube weldment	1
M	1068-252-055	Support bar wrist rest casting	1
N	1068-290-051	Label, specification	1



# Air delivery/drape support - 1068-168-000

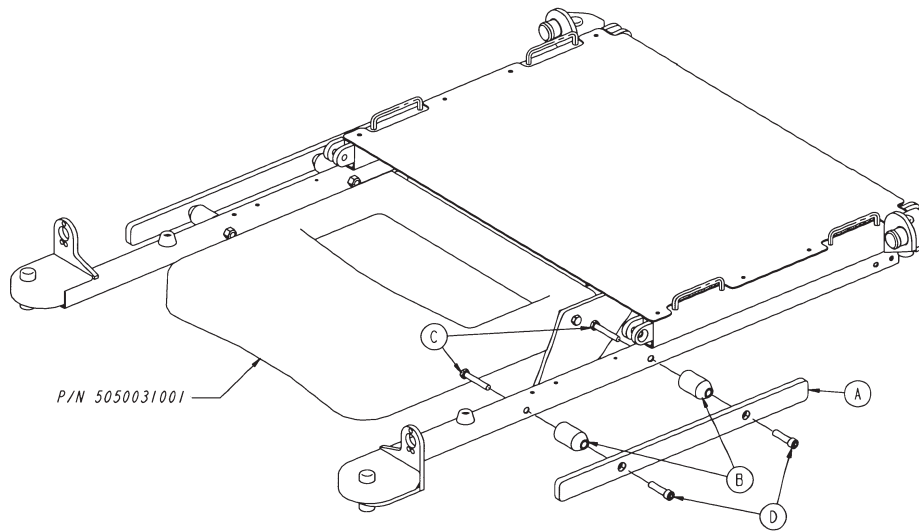
1068-168-010 Rev A (Reference only)



Item	Number	Name	Quantity
A	1068-168-050	Drape support weldment	1
B	1068-068-043	Oxygen tube cap	1
C	1068-268-042	Oxygen hose receptacle	1
D	1068-068-041	Oxygen supply line	1
E	1068-090-068	Label, specification	1
F	1066-085-013	Goose neck	1
G	1068-168-015	Oxygen latch	1
H	0026-172-000	Roll pin	1
I	0014-007-000	Flat washer	1
J	0011-063-000	Washer	1
K	0030-067-000	Grommet	2
L	0052-324-000	Spacer	1

# Surgery accessory rail assembly - 5051-531-010

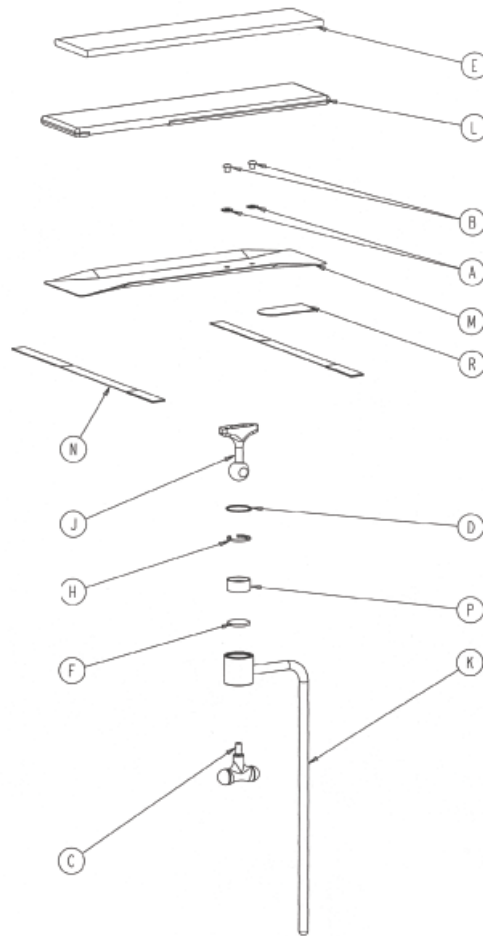
Rev A (Reference only)



Item	Number	Name	Quantity
A	1068-066-042	Bar/rail	2
B	5050-531-008	Spacer	4
C	0003-068-000	Hex head cap screw	4
D	0004-326-000	Socket head cap screw	4

# Arm board without clamp - 1068-055-010

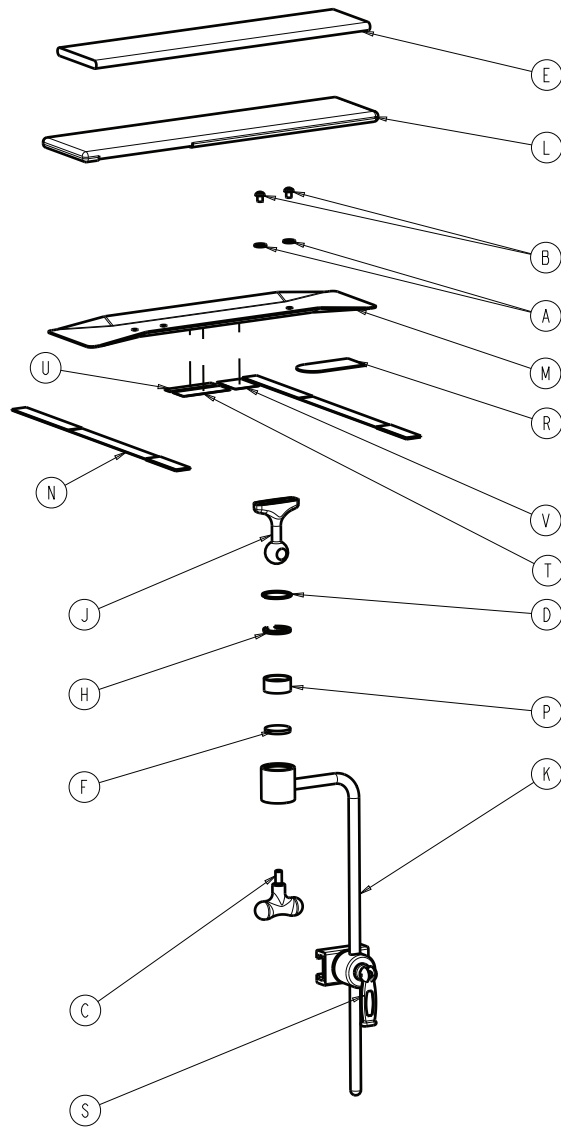
Rev B (Reference only)



Item	Number	Name	Quantity
A	0011-003-000	Flat washer	2
B	0004-269-000	Button head cap screw	2
C	0024-044-000	T-handle, male	1
D	0028-104-000	Retaining ring	1
E	0390-011-012	Foam pad	1
F	1060-001-152	Disc	1
H	1060-001-154	Split ring	1
J	1060-001-155	Ball post	1
K	1060-001-159	Leg support bar	1
L	1068-056-013	Armboard cover	1
M	1068-056-015	Armboard	1
N	1068-056-016	Restraint strap assembly	2
P	8812-670-000	Jaw	1
R	7900-001-102	Velcro® pile, 4"	1

# Arm board with clamp - 1068-056-000

1068-056-110 Rev AA (Reference only)

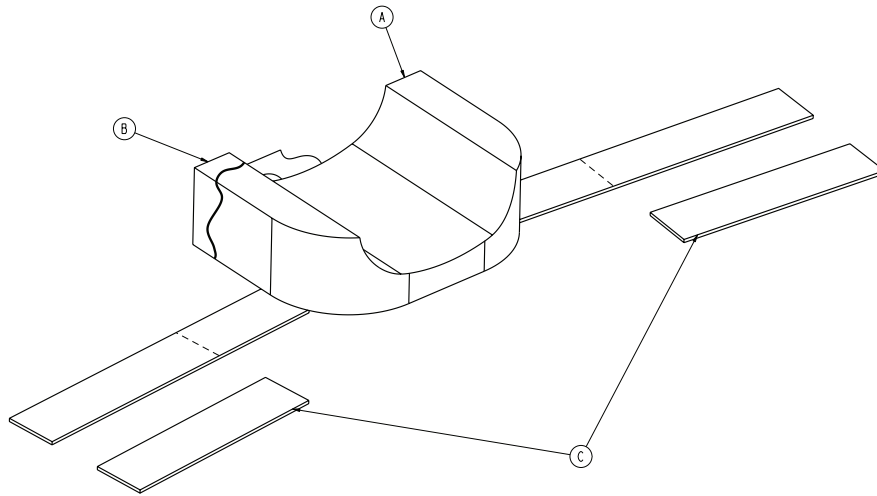


Item	Number	Name	Quantity
A	0011-003-000	Flat washer	2
B	0004-269-000	Button head cap screw	2
C	0024-044-000	T-handle, male	1
D	0028-104-000	Retaining ring	1
E	0390-011-012	Foam pad	1
F	1060-001-152	Disc	1
H	1060-001-154	Split ring	1
J	1060-001-155	Ball post	1
K	1060-001-159	Leg support bar	1
L	1068-056-013	Armboard cover	1
M	1068-056-015	Armboard	1
N	1068-056-016	Restraint strap assembly	2
P	8812-670-000	Jaw	1

<b>Item</b>	<b>Number</b>	<b>Name</b>	<b>Quantity</b>
R	7900-001-102	Velcro® pile, 4"	1
S	1068-054-010	Direct clamp	1
T	106800560901	Label, specification	1
U	108900010903	Label, EAR	1
V	106800560902	Label, translation	1

# Concave head pad - 5050-140-040

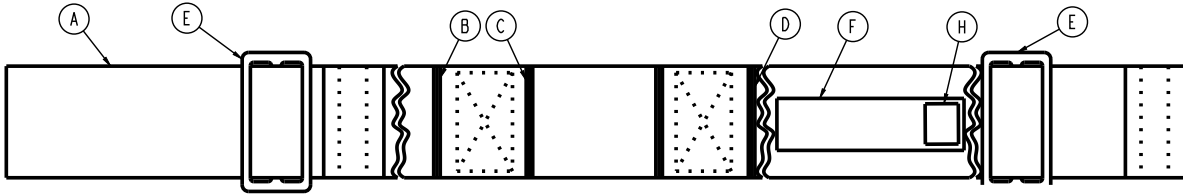
Rev B (Reference only)



Item	Number	Name	Quantity
A	5050-140-041	Concave head foam	1
B	5050-140-042	Concave headrest cover assembly	1
C	7900-001-102	<b>Velcro®</b>	2

# Ankle restraint strap - 0946-043-001

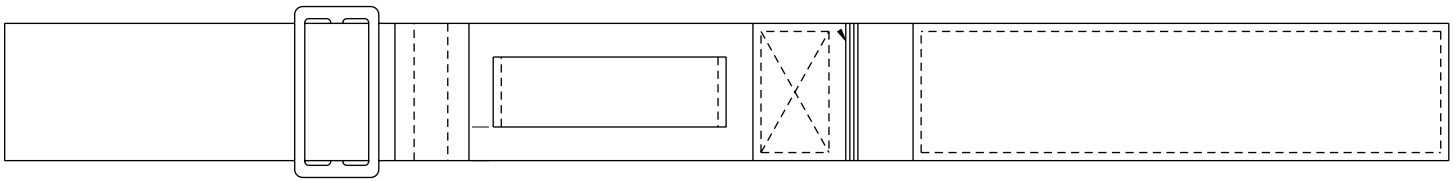
Rev AC (Reference only)



Item	Number	Name	Quantity
A	7900-001-011	Nylon webbing	1
B	7900-001-011	Nylon webbing	2
C	7900-001-101	Velcro® pile	2
D	7900-001-100	Velcro® hook	2
E	0390-057-014	Buckle	2
F	0946-001-085	Label, ankle restraint	1
H	0036-019-968	Label, JAC restraint symbols	1

# Wrist restraint strap - 0946-044-000

Rev C (Reference only)

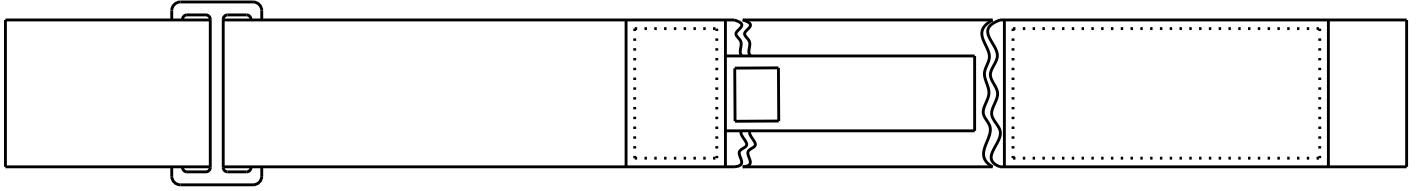


Number	Name
0946-044-001	Wrist restraining strap



# Chest restraint strap - 1010-058-000

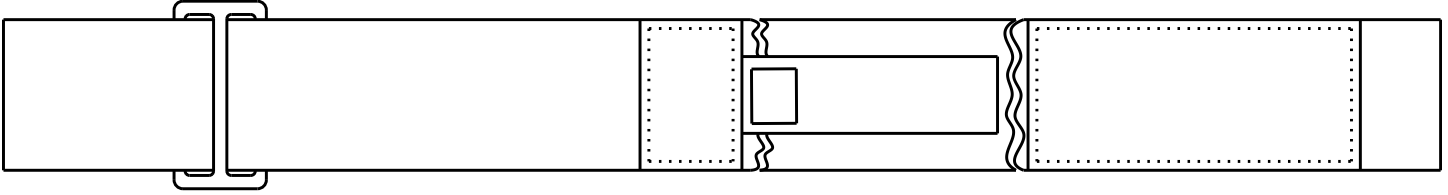
Rev AC (Reference only)



Number	Name
0390-019-001	Restraining strap, long
0390-019-002	Restraining strap, short

# Body restraint strap - 0390-019-000

Rev AC (Reference only)



Number	Name
0390-019-001	Restraining strap, long
0390-019-002	Restraining strap, short

# Full restraint strap package - 1010-077-000

Rev C (Reference only)

Number	Name
0390-019-000	Body restraint
0946-043-001	Ankle restraint strap assembly
0946-044-001	Wrist restraint
1010-058-000	Chest restraint

# stryker



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