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stryker® Medical

ZOOM™ **Patient Transport Frame**

Model 2040

MAINTENANCE MANUAL

For Parts or Technical Assistance
1–800–327–0770

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Chapter Quick Reference Guide

This quick reference guide will help you locate the section of the manual you need to service your equipment or to order parts for it.

Find the black tab matching the section you are looking for and match it with the corresponding tabs that mark the section in the body of the manual.

Refer to the main table of contents at the front of the manual or each sectional table of contents to locate specific topics.

Chapter One Introduction

Chapter Two Preventive Maintenance

Chapter Three Trouble-shooting

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Chapter Five Base Maintenance Procedures

Chapter Six Litter Maintenance Procedures

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Notes

INTRODUCTION

This manual is designed to assist you with the maintenance of the 2040 ZOOM™ Patient Transport Frame. Read it thoroughly before using the equipment or beginning any maintenance on it.

SPECIFICATIONS

Maximum Weight Capacity	500 pounds (227 kilograms)
Weigh System Capacity (optional equipment)	patients weighing up to 500 pounds (227 kilograms)
Weigh System Accuracy (optional equipment)	± 1% of total patient weight
Overall Length/Width	L–93” /W–42.5” (L–238 cm. /W–108 cm.)
Minimum/Maximum Height (Standard) Minimum/Maximum Height (Enhanced)	18.25” to 32.5” (46.5 cm. to 82.5 cm.) 19.9” to 34.5” (50.5 cm. to 88 cm.)
Knee/Gatch Angle	0° to 30°
Back/Fowler Angle	0° to 90°
Trendelenburg/Reverse Trendelenburg	–10° to +12°
Electrical Requirements	115 VAC, 60 Hz, 7.0 Amps
Battery Voltage	24 V, 31 Ah

Stryker reserves the right to change specifications without notice.

WARNING / CAUTION / NOTE DEFINITION

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

⚠ WARNING

The personal safety of the patient or user may be involved. Disregarding this information could result in injury to the patient or user.

⚠ CAUTION

These instructions point out special procedures or precautions that must be followed to avoid damaging the equipment.

NOTE

This provides special information to make maintenance easier or important instructions clearer.

Warranty

Limited Warranty:

Stryker Medical Division, a division of Stryker Corporation, warrants to the original purchaser that its products should be free from defects in material and workmanship for a period of one (1) year after date of delivery. Stryker's obligation under this warranty is expressly limited to supplying replacement parts and labor for, or replacing, at its option, any product which is, in the sole discretion of Stryker, found to be defective. Stryker warrants to the original purchaser that the frame and welds on its frames will be free from structural defects for as long as the original purchaser owns the frame. If requested by Stryker, products or parts for which a warranty claim is made shall be returned prepaid to Stryker's factory. Any improper use or any alteration or repair by others in such manner as in Stryker's judgement affects the product materially and adversely shall void this warranty. No employee or representative of Stryker is authorized to change this warranty in any way.

STRYKER EXPLICITLY DISCLAIMS ANY AND ALL LIABILITY RELATED TO DAMAGE TO THE FRAME, SURROUNDING EQUIPMENT OR STRUCTURES AND/OR INJURY TO ANY PERSON RESULTING FROM CONTACT WITH THE FRAME WHILE THE DRIVE WHEEL IS ACTIVATED AND CONTROLLED BY A USER.

THIS WARRANTY DOES NOT COVER DAMAGE TO ANY PART OF THE PRODUCT CAUSED BY CONTACT OF THE FRAME WITH ANY SURROUNDING EQUIPMENT OR STRUCTURE WHILE THE DRIVE WHEEL IS ACTIVATED.

This statement constitutes Stryker's entire warranty with respect to the aforesaid equipment. STRYKER MAKES NO OTHER WARRANTY OR REPRESENTATION, EITHER EXPRESSED OR IMPLIED, EXCEPT AS SET FORTH HEREIN. THERE IS NO WARRANTY OF MERCHANTABILITY AND THERE ARE NO WARRANTIES OF FITNESS FOR ANY PARTICULAR PURPOSE. IN NO EVENT SHALL STRYKER BE LIABLE HEREUNDER FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING FROM OR IN ANY MANNER RELATED TO SALES OR USE OF ANY SUCH EQUIPMENT.

To Obtain Parts and Service:

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

Supplemental Warranty Coverage:

Stryker has developed a comprehensive program of extended warranty options designed to keep your equipment operating at peak performance at the same time it eliminates unexpected costs. We recommend that these programs be activated *before* the expiration of the new product warranty to eliminate the potential of additional equipment upgrade charges. Stryker offers the following Supplemental Warranties:

Extended (Parts and Labor)

- All replacement parts (excluding mattresses and consumable items)
- Labor and travel for *all* scheduled and unscheduled calls
- Annual Preventive Maintenance Inspections and repairs
- JCAHO paperwork for preventive maintenance
- Priority Emergency Service

Standard (Labor Only):

- Labor and travel for *all* scheduled and unscheduled calls
- Annual Preventive Maintenance Inspections and repairs
- JCAHO paperwork for preventive maintenance
- Priority Emergency Service

Basic (Parts Only):

- All replacement parts (excluding mattresses and consumable items)
- Priority Emergency Service

Warranty

Return Authorization:

Merchandise cannot be returned without approval from the Stryker Customer Service Department. An authorization number will be provided which must be printed on the returned merchandise. Stryker reserves the right to charge shipping and restocking fees on returned items.

SPECIAL, MODIFIED, OR DISCONTINUED ITEMS NOT SUBJECT TO RETURN.

Damaged Merchandise:

ICC Regulations require that claims for damaged merchandise must be made with the carrier within fifteen (15) days of receipt of merchandise. DO NOT ACCEPT DAMAGED SHIPMENTS UNLESS SUCH DAMAGE IS NOTED ON THE DELIVERY RECEIPT AT THE TIME OF RECEIPT. Upon prompt notification, Stryker will file a freight claim with the appropriate carrier for damages incurred. Claim will be limited in amount to the actual replacement cost. In the event that this information is not received by Stryker within the fifteen (15) day period following the delivery of the merchandise, or the damage was not noted on the delivery receipt at the time of receipt, the customer will be responsible for payment of the original invoice in full.

Claims for any short shipment must be made within thirty (30) days of invoice.

International Warranty Clause:

This warranty reflects U.S. domestic policy. Warranty outside the U.S. may vary by country. Please contact your local Stryker Medical representative for additional information.

Please call your local representative, or call (800) 327–0770 for further information

Safety Tips and Guidelines

Before operating the 2040 Patient Transport Frame, it is important to read and understand all information in this manual. Carefully read and strictly follow the safety guidelines listed on this page. To ensure safe operation of the transport frame, methods and procedures must be established for educating and training hospital staff on the intrinsic risks associated with the usage of motorized electric units.

⚠ WARNING

- USE CAUTION while maneuvering the transport frame with the drive wheel activated. Always ensure there are no obstacles near the transport frame while the drive wheel is activated. Injury to the patient, user or bystanders or damage to the transport frame or surrounding equipment could occur if the collides with an obstacle.
- Serious injury can result if caution is not used when operating the transport frame. Operate transport frame only when all persons are clear of the electrical and mechanical systems.
- Leave the transport frame in the lowest position when the patient is unattended. Leaving the transport frame in a raised position could increase the chance of patient falls and injury.
- Leave the siderails fully up and locked when the patient is unattended. After raising the siderails, pull firmly on the siderail to ensure it is securely locked into the up position. Siderails are not intended to serve as a patient restraint device to keep patients from exiting the transport frame. Siderails are designed to keep a patient from inadvertently rolling off the transport frame. It is the responsibility of the attending medical personnel to determine the degree of restraint necessary to ensure a patient will remain in place. Failure to utilize the siderails properly could result in patient injury.
- Always apply the caster brakes when a patient is on the transport frame and push on the transport frame to ensure the brakes are locked. Injury could result if the transport frame moves while a patient is getting in or out of the unit.
- Ensure the brakes are completely released prior to attempting to move the transport frame. Attempting to move the transport frame with the brakes actuated could result in injury to the user and/or patient.
- Put the drive wheel in the neutral position and release the brakes before pushing the transport frame manually. Do not attempt to push the transport frame manually with the drive wheel engaged. The transport frame will be difficult to push and injury could result.
- If unanticipated motion occurs, unplug the power cord from the wall socket, push the battery power on/off switch to the ”OFF” position (the LED will not be illuminated) and actuate the drive wheel pedal to the neutral position.
- When attaching equipment to the transport frame, ensure it will not impede normal operation. For example: hooks on hanging equipment must not actuate control buttons, equipment must not hide the nurse call button, etc.
- Use caution when lowering the bed with items attached to the optional accessory rail. If caution is not used, items may contact the floor resulting in damage to the items and/or injury to the patient or user.
- The CPR emergency release requires assistance to lower the Back if the angle of the Back is above 80°. Attempting to lower the Back in this position without assistance may result in injury to the operator.
- The power save mode is activated after one hour on battery power with no motion release switch activation. Functions including Bed Exit, scale and motion will cease to operate when the transport frame enters the power save mode. Injury to the patient could occur if proper patient monitoring protocol is not observed.
- The Bed Exit System is intended only to aid in the detection of a patient exiting the transport frame. It is NOT intended to replace patient monitoring protocol. The bed exit system signals when a patient is about to exit. Adding or subtracting objects from the transport frame after arming the bed exit system may cause a reduction in the sensitivity of the bed exit system.
- Hand wash all surfaces of the transport frame with warm water and mild detergent. Dry thoroughly. DO NOT STEAM CLEAN, PRESSURE WASH, HOSE OFF OR ULTRASONICALLY CLEAN. Using these methods of cleaning is **not** recommended and may void this product’s warranty. Inspect the mattress cover after each use. Discontinue use if any cracks or rips are found in the cover which may allow fluids to enter the mattress. Exposure to fluids may cause injury to patient and/or user.

Safety Tips and Guidelines (Continued)

WARNING

- If large fluid spills occur in the area of the circuit boards or motors, immediately unplug the power cord from the wall socket and push the battery power on/off switch to the “OFF” position. Remove the patient from the transport frame and clean up the fluid. Have maintenance completely check the transport frame. Fluids can short out controls and may cause the transport frame to operate erratically or make some functions completely inoperable. Component failure caused by fluids could even cause the transport frame to operate unpredictably and could cause injury to the patient. DO NOT put the transport frame back into service until it is completely dry and has been thoroughly tested for safe operation.
- Preventative maintenance should be performed at a minimum of biannually to ensure all features are functioning as designed. Close attention should be given to safety features including, but not limited to:
  Safety side latching mechanisms
  Leakage current 100 microamps max.
  Frayed electrical cords and components
  Caster braking systems
  No controls or cabling entangled in mechanisms
  All controls return to off or neutral position when released
- Always unplug the power cord and push the battery power on/off switch to the “OFF” position before service or cleaning. When working under the transport frame, always place blocks under the litter frame to prevent injury in case the Litter Down switch is accidently activated.
- The battery tray assembly weighs 50 pounds. Take care when removing the two hex head screws securing it to the base frame or personal injury could result.
- Battery posts, terminals and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. **Wash hands after handling.**
- The 2040 Patient Transport Frame is not intended for pediatric use or for patients under 50 pounds.
- The 2040 Patient Transport Frame is intended for use by trained hospital personnel only.
- Warning: Service only by qualified personnel. Refer to maintenance manual.
- Do not modify the 2040 Patient Transport Frame. Modifying the transport frame can cause unpredictable operation resulting in injury to the patient or operator. Modifying the transport frame will also void its warranty.

WARNING

Potential pinch points

Set–Up Procedures

It is important that the 2040 Patient Transport Frame is working properly before it is put into service. The following list will help ensure that each part of the transport frame is checked.

- Plug the power cord into a properly grounded, hospital grade wall receptacle.

⚠ **WARNING**

The 2040 Patient Transport Frame is equipped with a hospital grade plug for protection against shock hazard. It must be plugged directly into a properly grounded three–prong receptacle. Grounding reliability can be achieved only when a hospital grade receptacle is used.

- Depress the pedal at either side of the transport frame fully to set the four wheel brakes and ensure all four casters lock. Depress the pedal again to release the brakes.
- Ensure the siderails raise and lower smoothly and lock in the up and intermediate positions.
- Run through each function on the foot board control panel and ensure that each is working properly.
- Ensure all functions are working properly on the siderail controls.
- Ensure all motion functions are working properly at the head end of the transport frame.
- Raise the Back up to approximately 60°. Squeeze the CPR release handle and ensure the Back and Knee will drop with minimal effort.
- Unplug the power cord from the wall socket. Push the battery power switch located on the lower left corner of the head end to the “ON” position. Again, verify each function on the foot board and siderails is operating properly.
- With the battery power switch in the “ON” position and the brakes engaged, ensure the “Release Brakes” LED on the head end control panel is illuminated.
- With the battery power switch in the “ON” position and the drive wheel disengaged (not touching the floor), ensure the “Engage Drive Wheel” LED on the head end control panel is illuminated.
- Run through the operation of the drive wheel to ensure it is operating properly.

Symbols

Warning, Refer to Service/Maintenance Manual

~ Alternating Current

Type B Equipment: equipment providing a particular degree of protection against electric shock, particularly regarding allowable leakage current and reliability of the protective earth connection.

Class 1 Equipment: equipment in which protection against electric shock does not rely on BASIC INSULATION only, but which includes an additional safety precaution in that means are provided for the connection of the EQUIPMENT to the protective earth conductor in the fixed wiring of the installation in such a way that ACCESSIBLE METAL PARTS cannot become live in the event of a failure of the BASIC INSULATION.

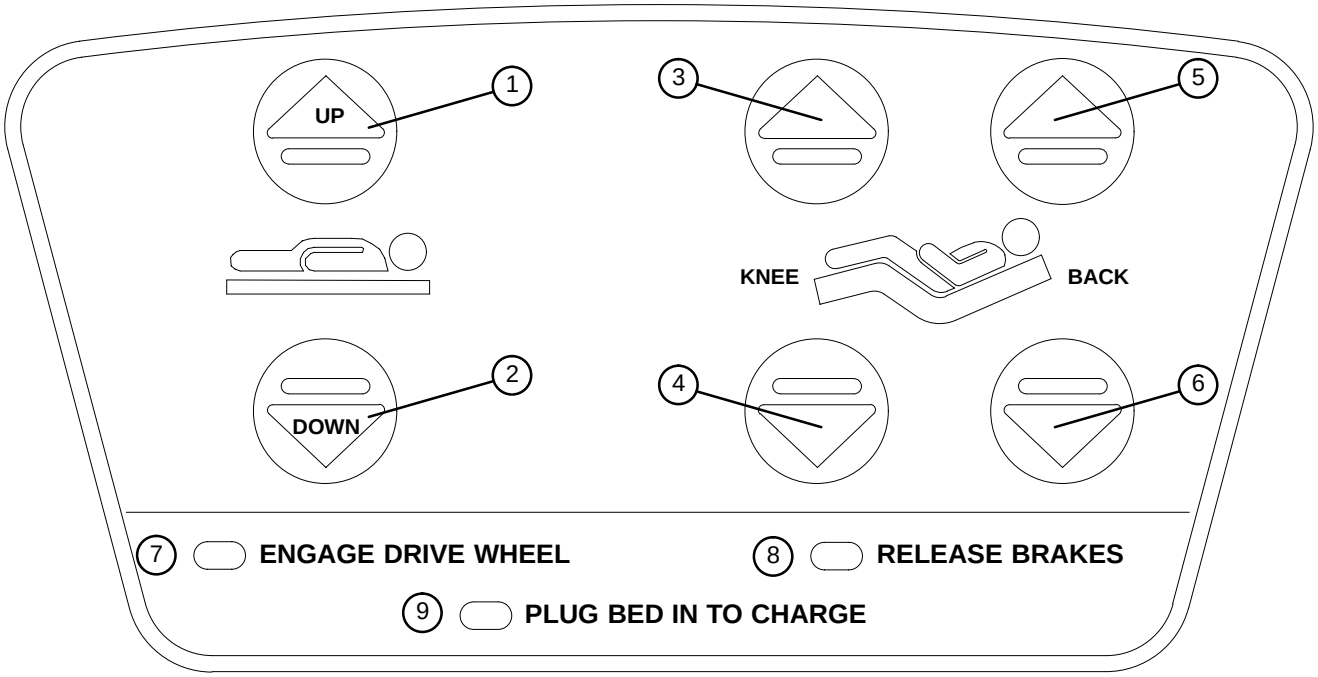
IPX4: Protection from liquid splash

Dangerous Voltage Symbol

Protective Earth Terminal

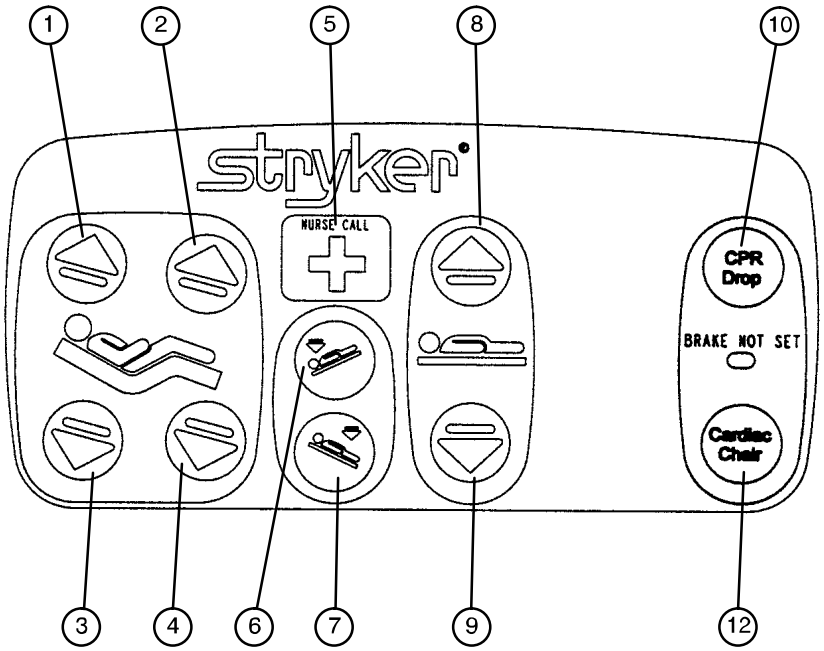
Potential Equalization Symbol

Symbols



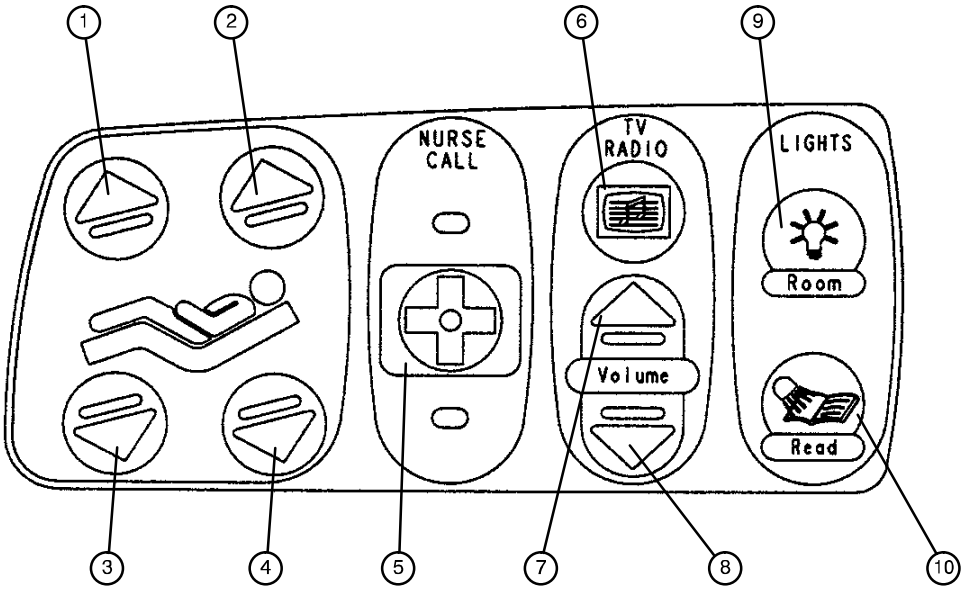
1. Press and hold to raise the litter. If your bed is equipped with the enhanced height option, continue to hold the button an additional 5 seconds after the first stop. The litter will raise an additional 2 inches.
2. Press and hold to lower the litter
3. Press to raise the Knee section.
4. Press to lower the Knee section.
5. Press to raise the Back section.
6. Press to lower the Back section.
7. The “Engage Drive Wheel” LED will be illuminated whenever the battery power switch is on and the drive wheel pedal is in the disengaged position. The light will go off when the drive wheel is engaged.
8. The “Release Brakes” LED will be illuminated whenever the frame’s brakes are engaged while the battery power switch is on. The light will go off when the brakes are disengaged.
9. The “Plug Bed In To Charge” LED will be illuminated while the battery power switch is on if the battery level is low. Plug the power cord into the wall socket to charge the batteries.

Symbols



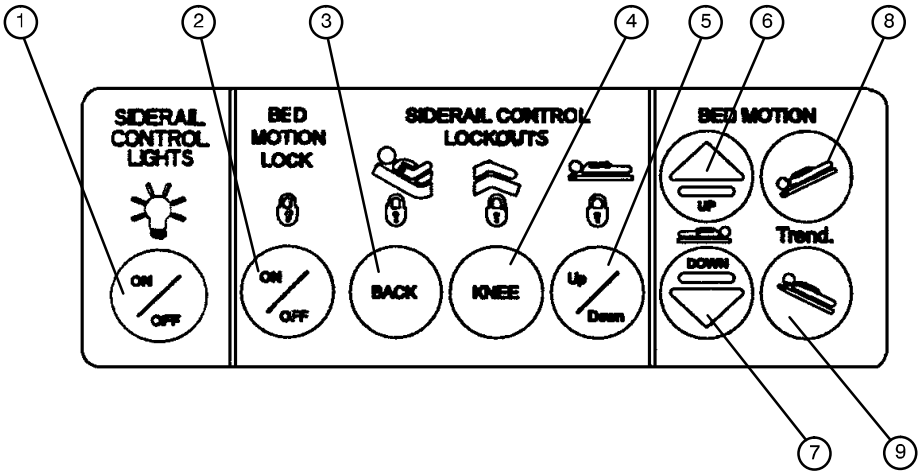
1. Press to raise back section.
2. Press to raise knee section.
3. Press to lower back section.
4. Press to lower knee section.
5. Press to activate nurse call.
6. Press to lower the head end (Trendelenburg).
7. Press to lower the foot end (Reverse Trendelenburg).
8. Press to raise the litter. If your bed is equipped with the enhanced height option, continue to hold the button an additional 5 seconds after the first stop. The litter will raise an additional 2 inches.
9. Press to lower the litter.
10. Press to activate emergency CPR positioning.
11. Press to activate Cardiac Chair positioning.

Symbols

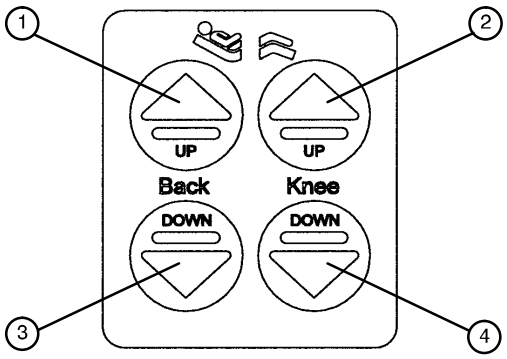


1. Press to raise knee section.
2. Press to raise back section.
3. Press to lower knee section.
4. Press to lower back section.
5. Press to activate the nurse call.
6. Press to turn on the TV or radio. Press again to change TV channels and to turn off the TV.
7. Press to increase the TV or radio volume.
8. Press to decrease the TV or radio volume.
9. Press to turn on the room lights. Press again to turn off.
10. Press to turn on the reading light. Press again to turn off.

Symbols

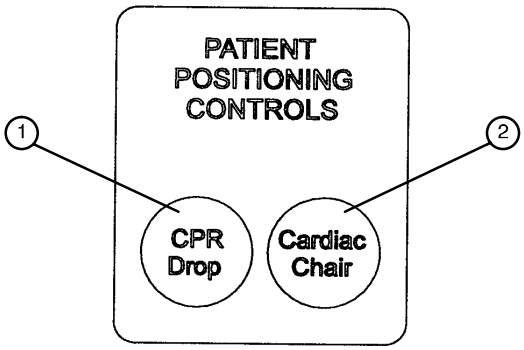


1. Press repeatedly for low, medium and high settings for the siderail control lights. Continue to press this switch to turn off the siderail control lights and the nurse call indicator light.
2. Press to lock out all motion controls on the siderails. Press again to unlock.
3. Press to lock out Back motion control on the siderails. Press again to unlock.
4. Press to lock out Knee motion control on the siderails. Press again to unlock.
5. Press to lock out up/down motion controls on the siderails. Press again to unlock.
6. Press to raise litter. If your bed is equipped with the enhanced height option, continue to hold the button an additional 5 seconds after the first stop. The litter will raise an additional 2 inches.
7. Press to lower litter.
8. Press to lower head end (Trendelenburg).
9. Press to lower foot end (Reverse Trendelenburg).

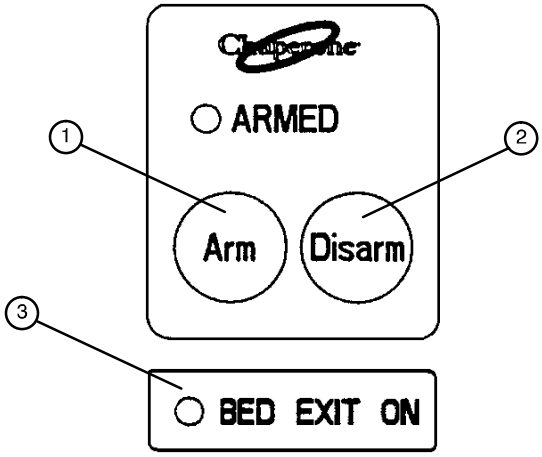


1. Press to raise back section.
2. Press to raise knee section.
3. Press to lower back section.
4. Press to lower knee section.

Symbols

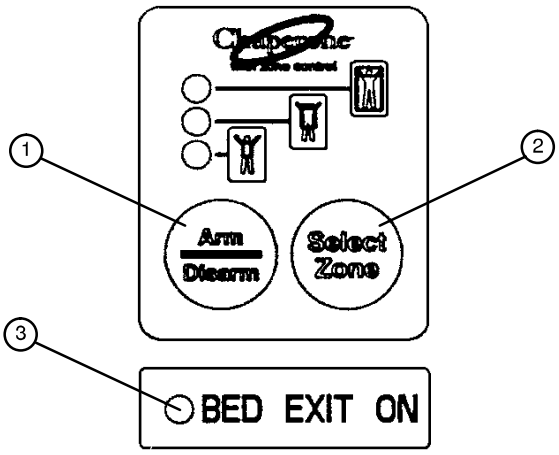


1. Press to activate the emergency CPR function. The Back will lower to flat, the Knee will lower to flat, the litter will level from Trendelenburg/reverse Trendelenburg, and the litter will lower to full down.
2. Press to activate the Cardiac Chair function. The Knee will raise, the Fowler will raise or lower to approximately 52° and the bed will tilt to approximately –12° reverse Trendelenburg (foot end down) or –14° if the bed has the enhanced height option. Release the button to stop bed movement: hold the button until movement stops to complete the function.

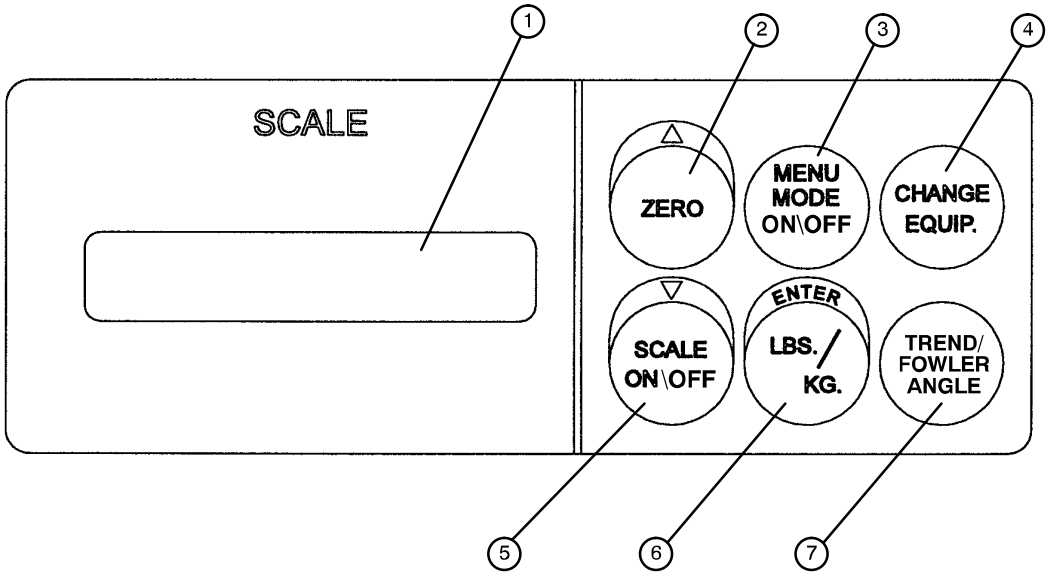


1. Press to arm the Bed Exit function.
2. Press to disarm the Bed Exit function.
3. “BED EXIT ON” LED – will light when the BED EXIT function is armed.

Symbols

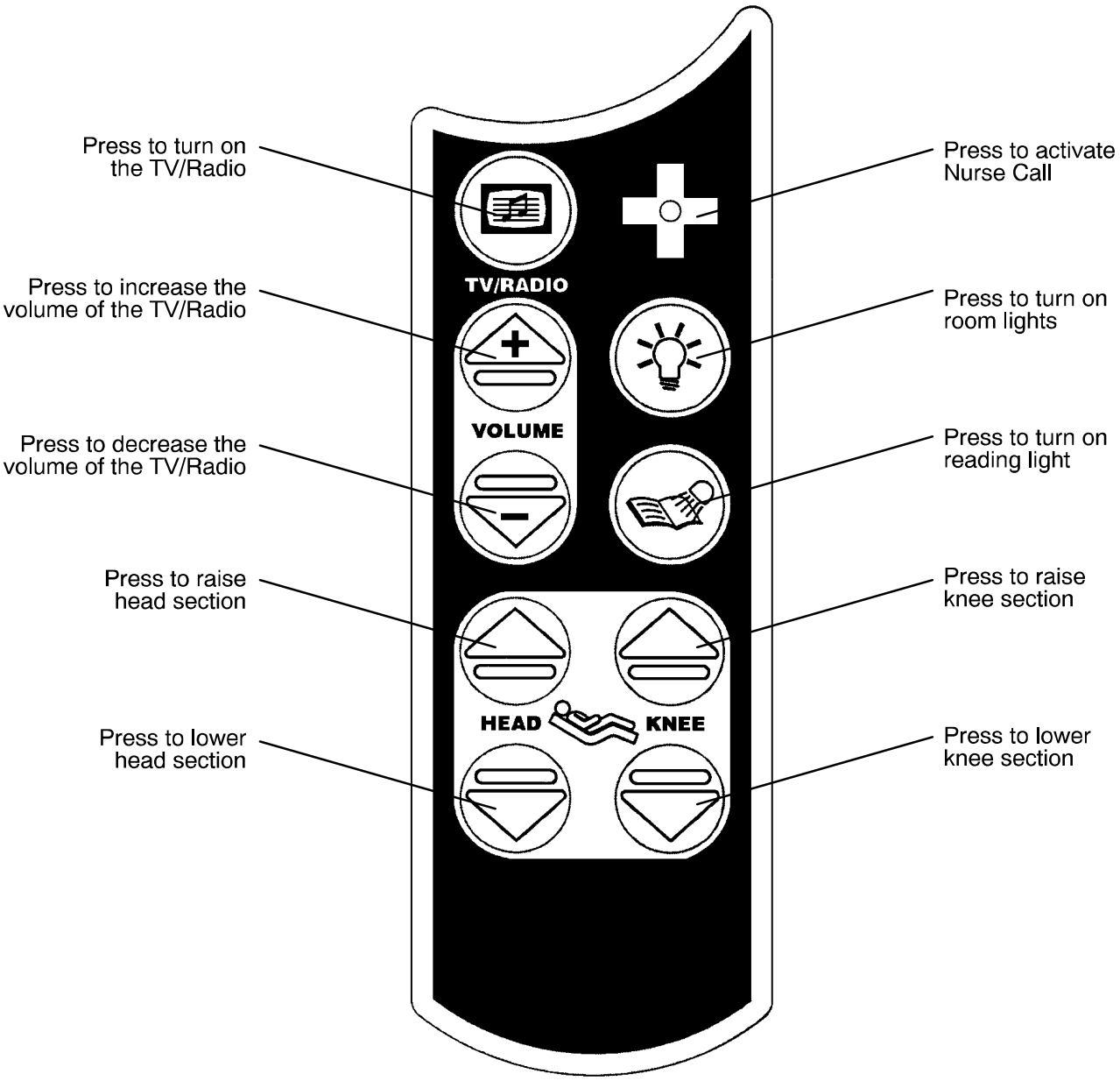


1. Press to arm or disarm the Bed Exit function.
2. Press to select the zone desired for Bed Exit function.
3. “BED EXIT ON” LED – will light when the BED EXIT function is armed.



1. LCD – displays patient weight. Trendelenburg angle is displayed when the scale is not active.
2. Press to zero system. Also press to scroll while Menu Mode is active.
3. Press to enter and exit the Menu Mode.
4. Press when adding or removing equipment on the frame.
5. Press to turn weigh system on and off. Also press to scroll while Menu Mode is active.
6. Press to change weight from pounds to kilograms or back. Also press while using the Menu Mode.
7. Press to display the Trendelenburg or Fowler angle.

Symbols


Press to turn on the TV/Radio
Press to increase the volume of the TV/Radio
Press to decrease the volume of the TV/Radio
Press to raise head section
Press to lower head section
TV/RADIO
VOLUME
HEAD
KNEE
Press to activate Nurse Call
Press to turn on room lights
Press to turn on reading light
Press to raise knee section
Press to lower knee section

GENERAL INFORMATION

This section contains some simple procedures as well as cleaning instructions and a checklist to assist with the routine preventive maintenance and cleaning of your equipment.

In the text, the words “right” and “left” refer to the right and left sides of a patient lying face up on the litter.

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Cleaning

Hand wash all surfaces of the unit with warm water and mild detergent. Dry thoroughly. DO NOT STEAM CLEAN, PRESSURE WASH, HOSE OFF OR ULTRASONICALLY CLEAN. Using these methods of cleaning is **not** recommended and may void this product's warranty.
Clean Velcro **AFTER EACH USE**. Saturate Velcro with disinfectant and allow disinfectant to evaporate. (Appropriate disinfectant for nylon Velcro should be determined by the hospital.)

In general, when used in those concentrations recommended by the manufacturer, either phenolic type or quaternary type disinfectants can be used. Iodophor type disinfectants are not recommended for use because staining may result. The following products have been tested and have been found not to have a harmful effect WHEN USED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDED DILUTION.*

TRADE NAME	DISINFECTANT TYPE	MANUFACTURER	*MANUFACTURER'S RECOMMENDED DILUTION
A33	Quaternary	Airwick (Professional Products Division)	2 ounces/gallon
A33 (dry)	Quaternary	Airwick (Professional Products Division)	1/2 ounce/gallon
Beaucoup	Phenolic	Huntington Laboratories	1 ounce/gallon
Blue Chip	Quaternary	S.C. Johnson	2 ounces/gallon
Elimstaph	Quaternary	Walter G. Legge	1 ounce/gallon
Franklin Phenomysan F2500	Phenolic	Purex Corporation	1 1/4 ounce/gallon
Franklin Sentinel	Quaternary	Purex Corporation	2 ounces/gallon
Galahad	Phenolic	Puritan Churchill Chemical Company	1 ounce/gallon
Hi–Tor	Quaternary	Huntington Laboratories	1/2 ounce/gallon
LPH	Phenolic	Vestal Laboratories	1/2 ounce/gallon
Matar	Phenolic	Huntington Laboratories	1/2 ounce/gallon
Omega	Quaternary	Airwick (Professional Products Division)	1/2 ounce/gallon
Quanto	Quaternary	Huntington Laboratories	1 ounce/gallon
Sanikleen	Quaternary	West Chemical Products	2 ounces/ gallon
Sanimaster II	Quaternary	Service Master	1 ounce/gallon
Vesphene	Phenolic	Vestal Laboratories	1 1/4 ounce/ gallon

Quaternary Germicidal Disinfectants, used as directed, and/or Chlorine Bleach products, typically 5.25% Sodium Hypochlorite in **dilutions ranging between 1 part bleach to 100 parts water, and 2 parts bleach to 100 parts water are not considered mild detergents. These products are corrosive in nature and may cause damage to your bed if used improperly.** If these types of products are used to clean Stryker patient handling equipment, measures must be taken to insure the beds are rinsed with clean water and thoroughly dried following cleaning. Failure to properly rinse and dry the beds will leave a corrosive residue on the surface of the bed, possibly causing premature corrosion of critical components.

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

REMOVAL OF IODINE COMPOUNDS

This solution may be used to remove iodine stains from mattress cover and foam footrest pad surfaces.

1. Use a solution of 1–2 tablespoons Sodium Thiosulfate in a pint of warm water to clean the stained area. Clean as soon as possible after staining occurs. If stains are not immediately removed, allow solution to soak or stand on the surface.

2. Rinse surfaces which have been exposed to the solution in clear water before returning the unit to service.

Biannual Checklist

_____ All fasteners secure
_____ Engage brake pedal and push on the frame to ensure all casters lock securely
_____ Optional locking steer caster engages and disengages properly
_____ Engage drive wheel and ensure it is operating properly
_____ Motion release switches working properly
_____ Confirm Head End Control Panel functionality
_____ Confirm battery powered functionality
_____ Siderails move, latch and stow properly
_____ All functions on siderails working properly (including LED's)
_____ CPR release working properly
_____ Foot prop intact and working properly
_____ I.V. pole working properly
_____ Foley bag hooks intact
_____ Chart rack intact and working properly
_____ CPR board not cracked or damaged and stores properly
_____ No cracks or splits in head and foot boards
_____ All functions on footboard working properly (including LED's)
_____ No rips or cracks in mattress cover
_____ Scale and Bed Exit system calibrated properly
_____ Power cord not frayed
_____ No cables worn or pinched
_____ All electrical connections tight
_____ All grounds secure to the frame
_____ Ground impedence not more than 100 milliohms
_____ Current leakage not more than 100 microamps
_____ Apply grease to litter grease points

Unit Serial No. _____ _____
_____ _____
_____ _____
_____ _____

Completed By:_____ Date:_____

⚠ **WARNING**

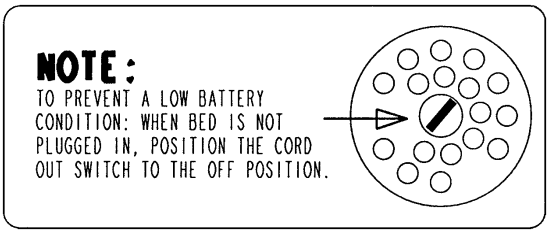
Service only by qualified personnel. Refer to the maintenance manual.

Ensure the power cord is unplugged and the battery power switch is turned to the off position before servicing.

NURSE CALL BATTERY

To prevent a low battery condition when the power cord is not plugged in, position the cord out switch at the head end to the off position. The switch is identified by the label shown below. If the switch is not positioned as shown below and the power cord and pendant cord are unplugged, the life of the back–up battery will be significantly reduced.

If the foot board POWER LED is flashing, the Nurse Call battery needs to be replaced. The battery is located on the patient's left side under the litter frame. No tools are required to replace the battery. Unplug the power cord from the wall socket and replace the battery. After replacing the battery, verify the foot board POWER LED is no longer flashing.



MAIN POWER CIRCUIT BREAKER

In the event of a loss of electric function, unplug the power cord from the wall socket and reset the circuit breaker(s) located under the head end of the litter on the patient's left side. Plug the power cord into a properly grounded wall receptacle and follow the set–up procedures listed on page 1–6.

BATTERY CHARGER CIRCUIT BREAKER

If the battery charger circuit breaker(s) located under the litter on the patient's head end, left side are tripped, refer to the troubleshooting section of the maintenance manual.

GENERAL INFORMATION

This section contains troubleshooting charts to assist with the diagnosis of problems with your equipment.

In the text, the words “right” and “left” refer to the right and left sides of a patient lying face up on the frame.

TROUBLESHOOTING CONTENTS

Troubleshooting Guide 3–2

Zoom™ Troubleshooting Guide . . . . . 3–3 & 3–4

Troubleshooting Guide

DEFINITIONS:

DMM = Digital Multi–Meter
PCB = Printed Circuit Board
CPU = Central Processing Unit

NOTE
See page 4–2 through page 4–9 for an outline of the PCB's and voltage test points.

PROBLEM/FAILURE	RECOMMENDED ACTION
No power.	**A.** Check circuit breaker. **B.** Check for 120 VAC power at J1 on power supply. See page 4–5 for power supply voltage test points. **C.** Check for DC voltages on J2 (Pins 1,2,3 & 6) on power supply. See page 4–5 for power supply voltage test points.
No litter down motion.	**A.** Enter diagnostics, (see page 6–2) and press litter down. If motion is present, re–burn lift potentiometers. Monitor Pin 3 and Pin 2 of HDR7 and HDR12 on the CPU PCB using DMM. Verify voltage changes on Pin 3 with changes in lift motion. See page 6–8 for voltage parameters for low and high limits. **B.** If no down motion in diagnostic, check for 120 VAC power on HDR33 and HDR34, Pin 1 and Pin 3, of the CPU. **C.** Check for 1.1–1.5 VDC signal on O6 and O8 Pin 1 and HDR2 Pin 5 of the CPU PCB. **D.** Check for motion interrupt jumper on HDR3.
No litter up motion.	**A.** Check 120 VAC power on HDR33 and HDR34, Pin 1 and Pin 6, of the CPU board. **B.** Check for 1.1–1.5 VDC signal on O5 and O7 Pin 1 and HDR2 Pin 5 of the CPU PCB.
No Gatch down motion.	**A.** Check for 120 VAC power on HDR30 Pin 1 and Pin 3 of the CPU board. **B.** Check for 1.1–1.5 VDC signal on O3 Pin 1 and HDR2 Pin 5 of the CPU PCB.
No Gatch up motion.	**A.** Check for 120 VAC on HDR30, Pin 1 and Pin 2 of the CPU board. **B.** Check for 1.1–1.5 VDC on O1 Pin 1 and HDR2 Pin 5 of the CPU PCB.
No Fowler down motion.	**A.** Check for 120 VAC power on HDR29 Pin 3 and Pin 1 of the CPU board. **B.** Check for 1.1–1.5 VDC signal on O4 Pin 1 and HDR2 Pin 5 of the CPU PCB.
No Fowler up motion.	**A.** Check for 120 VAC on HDR29, Pin 1 and Pin 3 of the power supply. **B.** Check for 1.1–1.5 VDC on O2 Pin 1 and HDR2 Pin 5 of the CPU PCB.

Troubleshooting Guide

This section of the troubleshooting guide includes the Zoom™ self–propelled drive and the battery backup functions. When using this guide, assume the bed is functioning properly when powered by the AC line cord with the exception of the battery charging components.

PROBLEM/FAILURE	POSSIBLE CAUSE	RECOMMENDED ACTION
ON/OFF switch is in the on position but the power LED is off and the bed does not function.	No DC voltage from the batteries.	**A.** Check the fuse (F1) on the power board (see page 4–6) – replace if necessary (p/n 59–730). **B.** Check battery + to battery – on the power board for greater than 22VDC. **C.** Verify the battery voltage is greater than 22 VDC. **D.** Check the battery fuse – replace if necessary (p/n 2040–1–802). **E**. Check the cable connections from the batteries to the display board. **F.** Check the ON/OFF switch and cabling.
ON/OFF switch is in the on position, the power LED is on but the bed does not function.	Display board is not functioning or is locking out all functions.	**A.** Check the safety switches on the drive bar. **B.** Verify the battery voltage is greater than 22 VDC. **C.** Verify the display board is functioning (see note below). **D.** Check all cable connections on the display and power boards.
The Zoom™ drive does not work – the bed does not drive – but all other functions are working.	Zoom™ drive circuitry is not responding.	**A.** Verify the display board is functioning (see note below). **B.** Perform the control bar potentiometer “burn–in” procedure (see page 6–12). **C.** Check the control bar potentiometer. When the bar is centered, there should be 2.25VDC – 2.75 VDC between pin 1 and pin 2 on header 1 on the display/CPU board (see page 4–4) **D.** Check all cable connections on the display and power boards. **E.** Verify the power board is functioning. **F.** Verify the drive wheel is functioning.

NOTE

The display board will display the state of battery charge when the bed is first powered using the ON/OFF switch:
Three LED’s flash = 90% – 100% charged
Two LED’s flash = 80% – 90% charged
One LED flashes = 70% – 80% charged
No LED’s flash = less than 70% charged.

Troubleshooting Guide

PROBLEM/FAILURE	POSSIBLE CAUSE	RECOMMENDED ACTION
The Zoom™ drive does work – the bed will drive – but all other bed functions are not working.	No AC power from the Zoom™ base.	**A.** Check AC voltage coming out of the inverter. It should be 120VAC between pin 1 and pin 4 on header 5 on the AC crossover board (see page 4–7)) **B.** Check all cable connections from the batteries to the converter. **C.** Check the AC crossover board.
The bed power cord is plugged in but the battery does not charge.	The battery charger is not functioning.	**A.** Check the circuit breakers on the Zoom™ litter (page 10–44, item NA) . **B.** Check the battery charger. **C.** Check all cable connections on the charger.

GENERAL INFORMATION

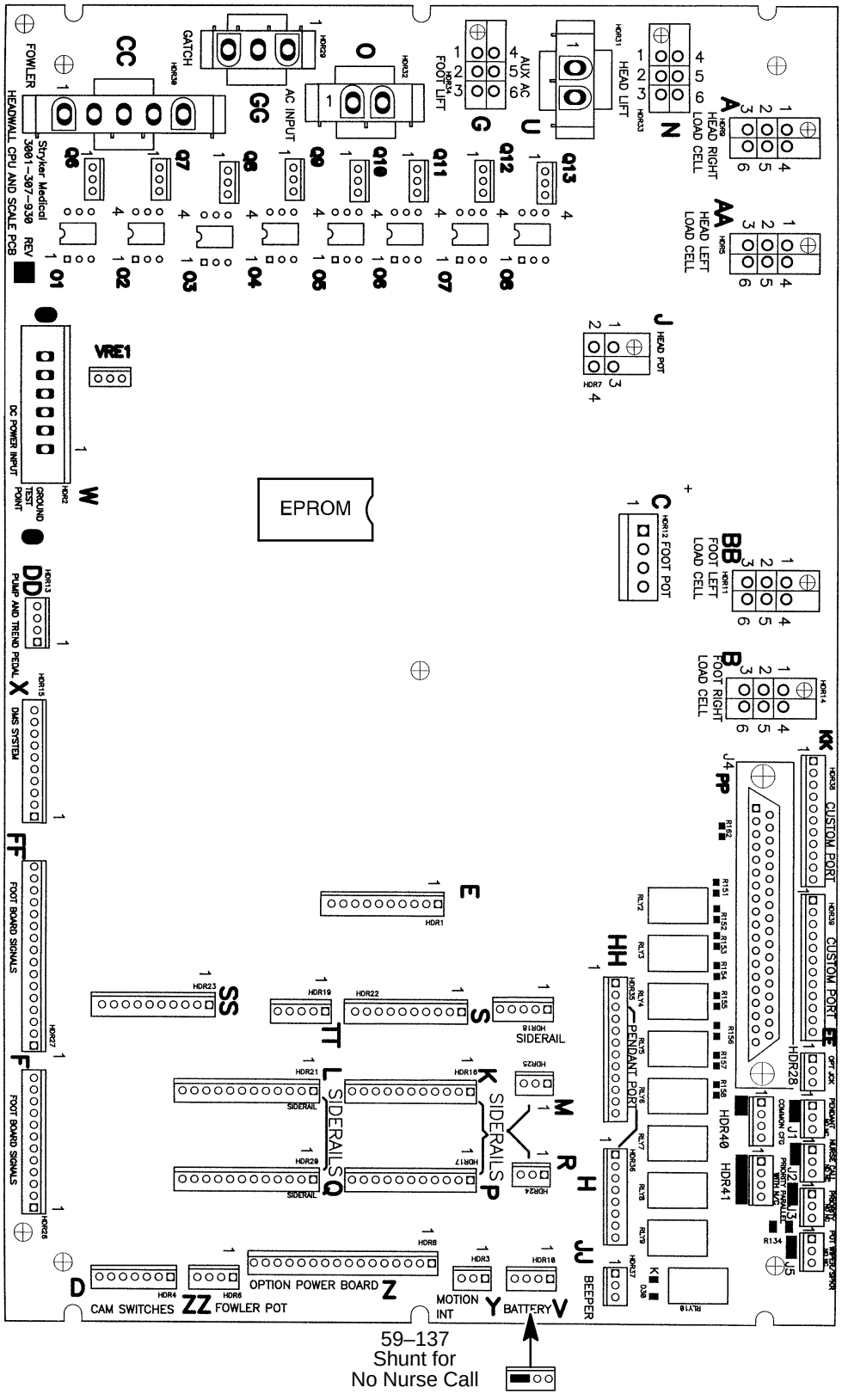
This section contains circuit board layouts and other information on the electrical system of the frame.

ELECTRICAL SYSTEM INFORMATION CONTENTS

CPU Board Diagram 4–2, 4–3
Display/CPU Diagram 4–4
Power Supply Diagram 4–5
Power Board Diagram 4–6
AC Crossover Board Diagram 4–7
Optional Bed Exit Circuit Board Diagram 4–8
Optional Smart TV Circuit Board Diagram 4–9
Optional Bed Communications Tester 4–10
Head Wall Output Configuration 4–11
Inverter Protection Features and Voltage Points 4–12
Static Discharge Precautions 4–13

CPU Board Diagram

CPU (BED EXIT/SCALE) – 2040–700–11 **CPU (ZONE BED EXIT/SCALE) – 2040–700–12**



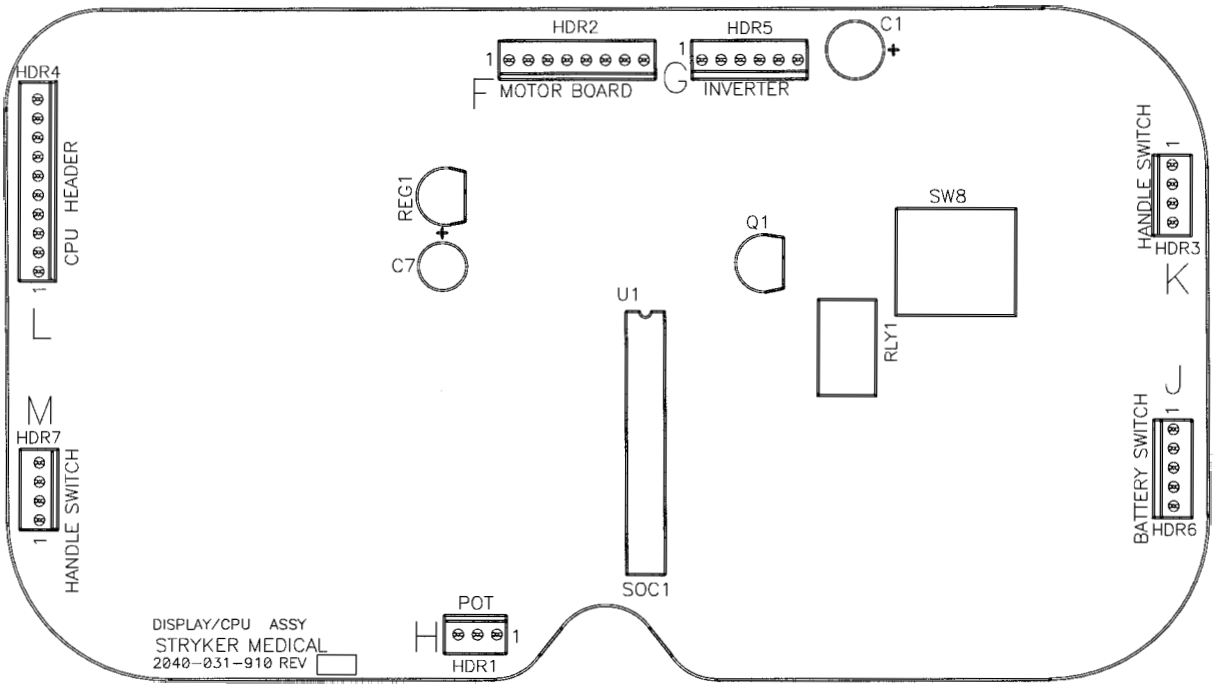
CPU Board Diagram (Continued)

CPU (BED EXIT/SCALE) – 2040–700–11 CPU (ZONE BED EXIT/SCALE) – 2040–700–12

CONNECTOR LOCATION	CABLE LOCATION	VOLTAGE	POSITIVE LEAD	NEGATIVE LEAD	DESCRIPTION
HDR 2	W	+12 VDC	Pin 1	Pin 4 or 5	Relays & Siderails Light Voltage
HDR 2	W	+5 VDC	Pin 2 & 3	Pin 4 or 5	+5 VDC from Power Supply
HDR 2	W	–12 VDC	Pin 6	Pin 4 or 5	Relays & Siderails Light Voltage
HDR 6	ZZ	+5 VDC	Pin 1	Pin 4	+5 VDC for Fowler Pot
HDR 6	ZZ	0 – 5 VDC	Pin 3	Pin 4	Fowler Pot Wiper
HDR 7	J	0 – 5 VDC	Pin 3	Pin 2	Head Lift Pot Wiper
HDR 7	J	+5 VDC	Pin 4	Pin 2	+5 VDC for Head Lift Pot
HDR 12	C	+5 VDC	Pin 1	Pin 2	+5 VDC for Foot Lift Pot
HDR 12	C	0 – 5 VDC	Pin 3	Pin 2	Foot Lift Pot Wiper
HDR 29	CC	0 VAC w/o Switch 110 VAC w/Switch	Neutral Pin 1	Pin 2	Gatch Up
HDR 29	CC	0 VAC w/o Switch 110 VAC w/Switch	Neutral Pin 1	Pin 3	Gatch Down
HDR 30	GG	0 VAC w/o Switch 160 VAC w/ Switch	Neutral Pin 3	Pin 1	Fowler Up
HDR 30	GG	0 VAC w/o Switch 120 VAC w/ Switch	Neutral Pin 3	Pin 2	Fowler Down
HDR 32	O	110 VAC	Pin 1	Pin 2	Line Voltage to Bed
HDR 33	N	0 VAC w/o Switch 120 VAC w/ Switch	Neutral Pin 1 or 4	Pin 3	Head Lift Down
HDR 33	N	0 VAC w/o Switch 120 VAC w/ Switch	Neutral Pin 1 or 4	Pin 6	Head Lift Up
HDR 34	G	0 VAC w/o Switch 120 VAC w/ Switch	Neutral Pin 1 or 4	Pin 3	Foot Lift Down
HDR 34	G	0 VAC w/o Switch 120 VAC w/ Switch	Neutral Pin 1 or 4	Pin 6	Foot Lift Up

Display/CPU Diagram

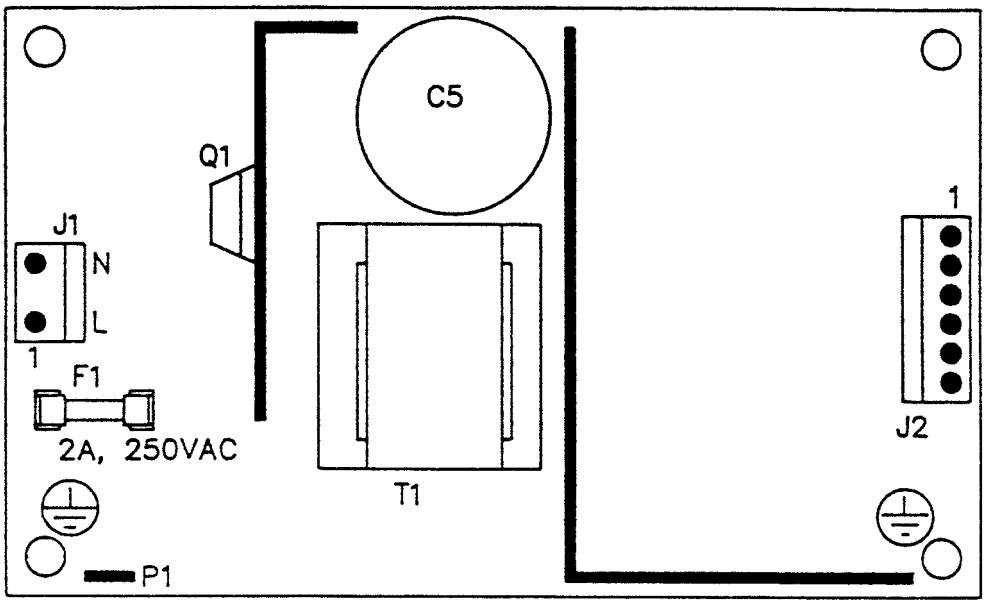
DISPLAY/CPU – P/N 2040–31–910



CONNECTOR LOCATION	VOLTAGE	POSITIVE LEAD	NEGATIVE LEAD	DESCRIPTION
HDR 4 (L)	Battery voltage around 24VDC	Pin 3	Pin 1	Battery Voltage into the Display/CPU Board
HDR 1 (H)	0–5VDC	Pin 2	Pin 1	Control Pot Wiper Voltage
HDR 6 (J)	Battery voltage around 24VDC	Pin 1	Pin 5	Battery Voltage Return from On/Off Switch

Power Supply Diagram

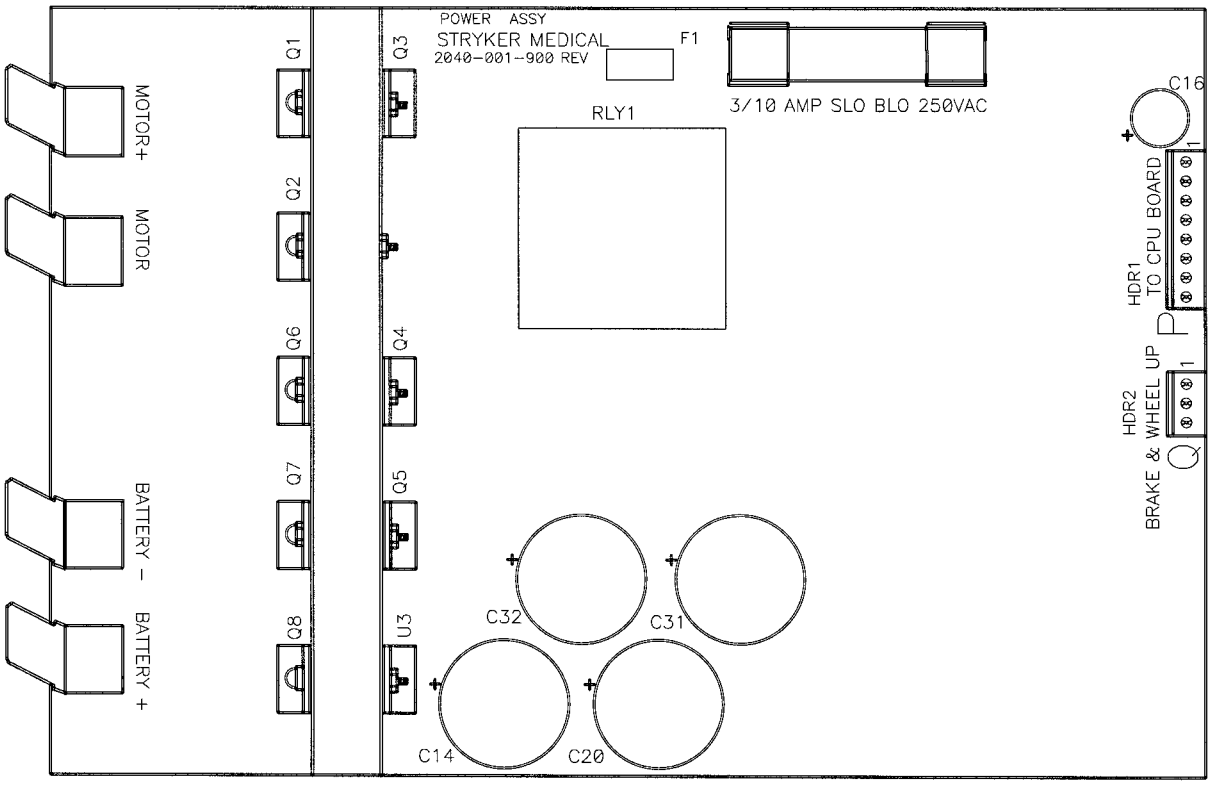
POWER SUPPLY – P/N 59–157



CONNECTOR LOCATION	VOLTAGE	POSITIVE LEAD	NEGATIVE LEAD
J1	110V	Pin 1	Pin 2
J2	12V	Pin 1	Pin 4 or 5
J2	5V	Pin 2	Pin 4 or 5
J2	5V	Pin 3	Pin 4 or 5
J2	GND	Pin 4	Pin 4 or 5
J2	GND	Pin 5	Pin 4 or 5
J2	–12V	Pin 6	Pin 4 or 5

DC Motor Power Board Diagram

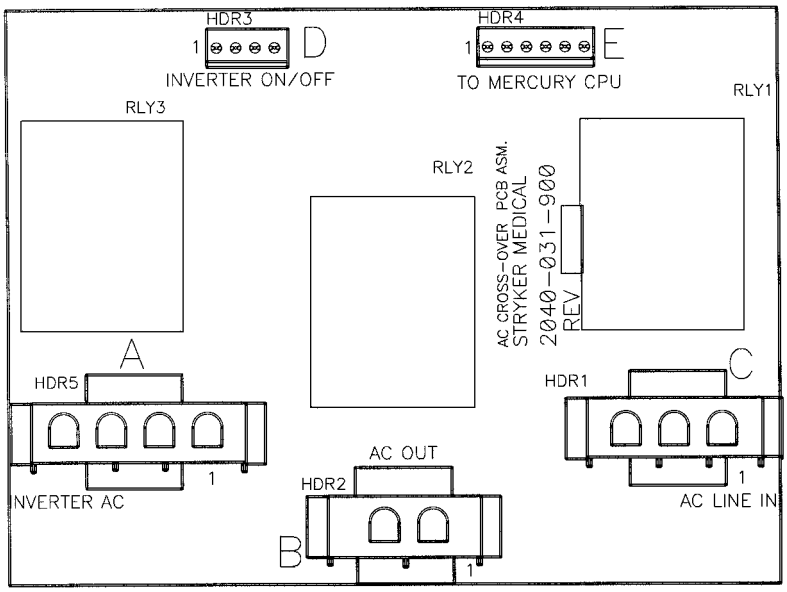
DC MOTOR POWER BOARD – P/N 2040–1–900



CONNECTOR LOCATION	VOLTAGE	POSITIVE LEAD	NEGATIVE LEAD	DESCRIPTION
HDR 1 (P)	Battery voltage around 24VDC	Pin 3	Pin 1	Battery Voltage out to the Display/CPU Board

AC Crossover Board Diagram

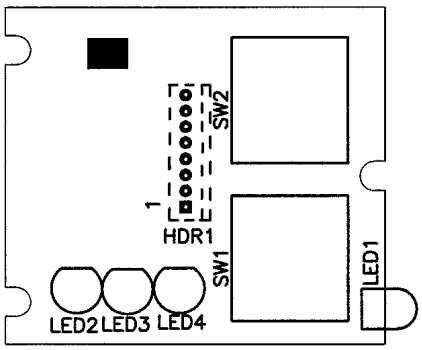
AC CROSSOVER BOARD – P/N 2040–31–900



CONNECTOR LOCATION	VOLTAGE	POSITIVE LEAD	NEGATIVE LEAD	DESCRIPTION
HDR 5 (A)	120VAC	Pin 4	Pin 1	AC Input to Board from the Inverter with the Power Cord Unplugged
HDR 1 (C)	120VAC	Pin 3	Pin 1	AC Input to Board from the Wall Receptacle
HDR 2 (B)	120VAC	Pin 2	Pin 1	AC Output of Board to Main Power
HDR 4 (E)	+5VDC	Pin 4	Pin 1	+5VDC when AC is Unplugged from the Wall Receptacle
HDR 3 (D)	Continuity	Pin 3	Pin 1	Relay Contacts. Closed when Power Cord is Unplugged. Turns on the Inverter

Optional Bed Exit Circuit Board Diagram

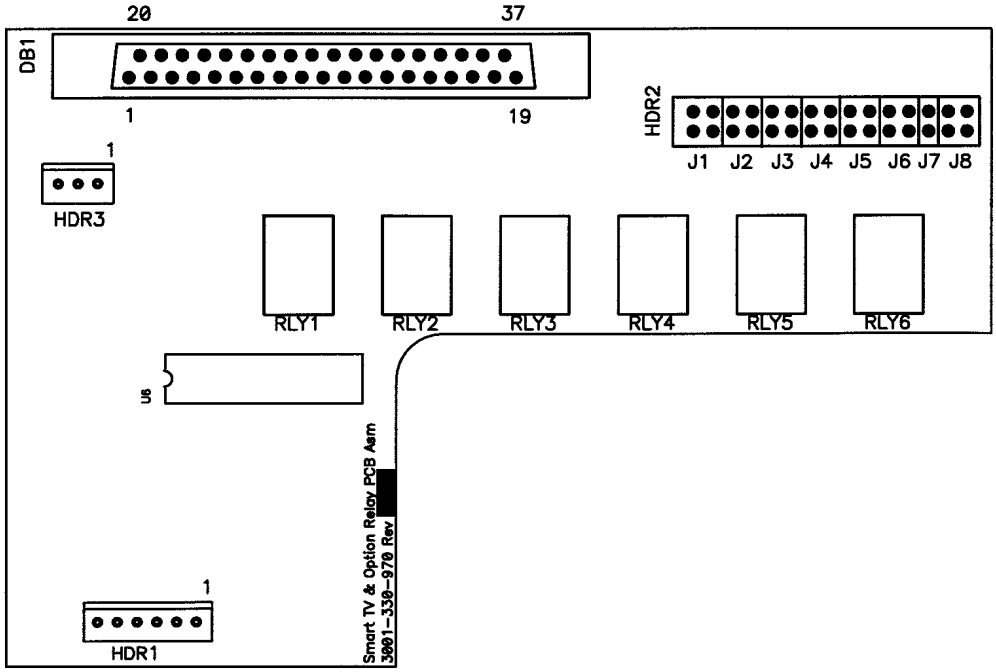
OPTIONAL BED EXIT BOARD – PART NUMBER 3002–508–900



CONNECTOR LOCATION	NEGATIVE LEAD	POSITIVE LEAD	VOLTAGE	DESCRIPTION
HDR 1	Main Keypad HDR 2, Pin 3	Pin 8	5 VDC	LED Supply Voltage

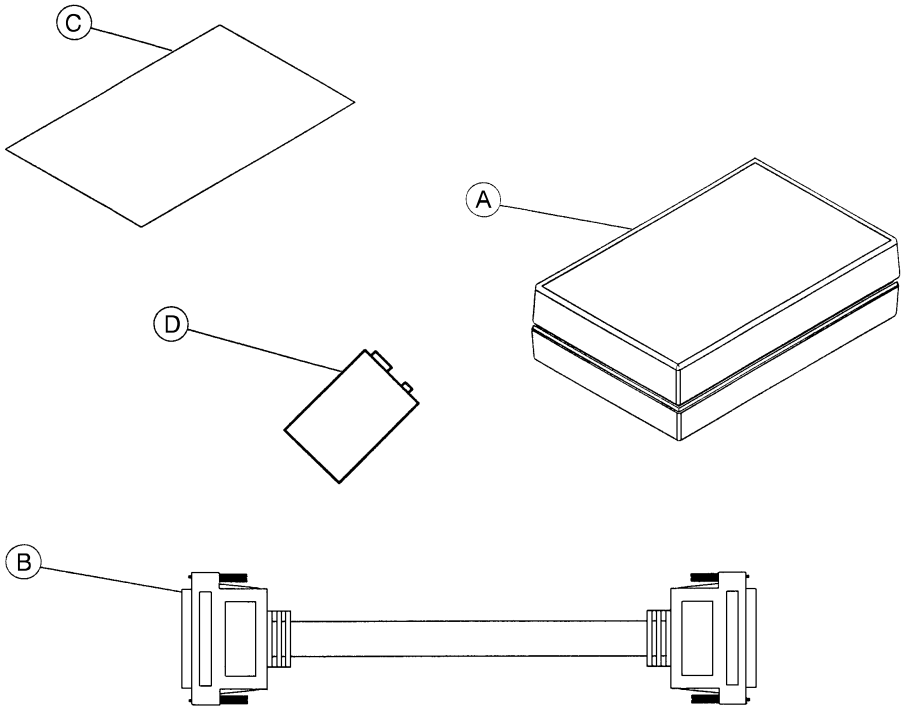
Optional Smart TV Circuit Board Diagram

OPTIONAL SMART TV CIRCUIT BOARD – P/N 3001–330–970



CONNECTOR LOCATION	VOLTAGE	POSITIVE LEAD	NEGATIVE LEAD	DESCRIPTION
HDR 1	5 VDC	Pin 2	Pin 1	Regulated 5 VDC Power to the board
HDR 1	Digital Control	Pin 3–5	Pin 1	Serial control lines
HDR 1	5 VDC	Pin 6	Pin 1	5 VDC for option relay
HDR 3	+5 or +12 VDC	2	Pin 1	Power/control line from the TV Note: This header provides TV control to a non–Stryker pendant
DB1	+5 or +12 VDC	Pin 34	Pin 33	Power/Control line from the TV Note: If this polarity is reversed, place the shunts of J8 in the alternate position

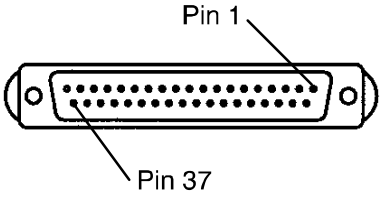
3001–303–165 Optional Bed Communications Tester



Item	Part No.	Part Name	Qty.
A	3001–303–160	BCT Unit	1
B	3001–303–825	37–Pin Cable	1
C	3001–303–162	Instructions	1
D	3000–303–871	9V Battery	1

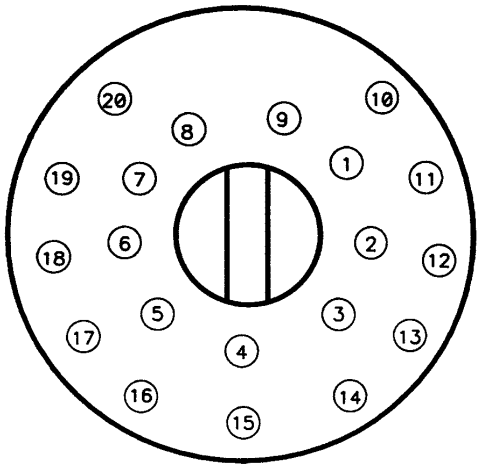
Head Wall Output Configuration

37–PIN CONNECTOR



Pin 1	Option 2 Common
Pin 2	Read Light
Pin 3	Room Light
Pin 4	Speaker High
Pin 5	Pot Wiper
Pin 6	Radio Common
Pin 7	Nurse Call Interlock
Pin 8	Audio Transfer –
Pin 9	Audio Transfer +
Pin 10	Interlock +
Pin 11	Interlock –
Pin 12	Spare
Pin 13	Options 3 Common
Pin 14	Pot Low Common
Pin 15	Pot High Common
Pin 16	Nurse Answer Light +
Pin 17	Option 1 NO/NC
Pin 18	Option 1 Common
Pin 19	Nurse Call Light +
Pin 20	Option 2 NO/NC
Pin 21	Option 3 NO/NC
Pin 22	Option 3A NO/NC
Pin 23	Option 2A Common
Pin 24	Option 2A NO/NC
Pin 25	Nurse Call +
Pin 26	Nurse Call NO/NC
Pin 27	Room/Read Light Common
Pin 28	Nurse Call Light –
Pin 29	Nurse Answer Light –
Pin 30	Priority NO/NC
Pin 31	Priority Common
Pin 32	Option 3A Common
Pin 33	TV –
Pin 34	TV +
Pin 35	Speaker Low Common
Pin 36	Audio Shield
Pin 37	Radio NO/NC

STRYKER PENDANT PORT



1	Scan Line
2	Audio (–)
3	Nurse Call (+)
4	+5 VDC
5	Scan Line
6	Scan Line
7	Nurse Call (–)
8	TV Channel Up
9	Backlight
10	Audio (+)
11	Gatch Up/Fowler In/Foot Up/DMS Firm
12	Gatch Down/Fowler Out/Foot Out/DMS Soft
13	Fowler Up/Trend In
14	Fowler Down/Trend Out
15	Audio Shield
16	Not Used – Socket Filled
17	Litter Up
18	Ground
19	Read Light/Litter Down
20	Room Light

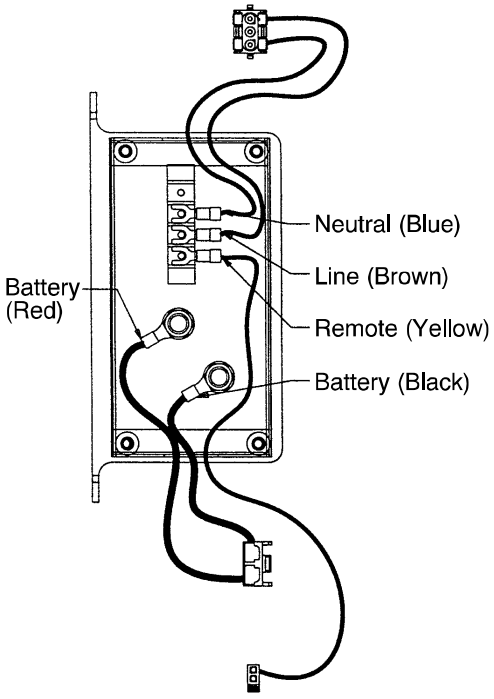
Inverter Protection Features and Voltage Points

The inverter has several features to prevent internal damage:

1. Low Battery Voltage – If the battery voltage at the inverter drops below the low voltage cut–off, an alarm will sound and the inverter will shut off. When battery voltage increases to 95% of nominal battery voltage, the inverter will restart.
2. High Battery Voltage – If the battery voltage input rises above the high voltage cut–off, the inverter will shut off. When the battery voltage input drops back within the normal voltage range, the inverter will re-start.
3. Over–Temperature – If the inverter gets too hot, it will shut off. The overheating may be caused by high ambient temperature, blocked air flow or an overload condition. When the inverter reaches an acceptable temperature, it will restart.
4. Over–Power – The inverter will source up to its maximum power rating. If the load requires more, the output voltage will be lowered to supply no more than its maximum power so the maximum power from the inverter is reduced to a safe amount.

⚠ WARNING

The inverter generates 115VAC, the same as a wall receptacle. To prevent injury, do not put anything into the electrical outlets other than an appliance power cord. Keep the outlets covered when not in use. Do not submerge the unit or subject it to moisture.



VOLTAGE	POSITIVE LEAD	NEGATIVE LEAD
Approximately 24VDC	Battery Red	Battery Black
Approximately 120VAC	Line Brown	Neutral Blue

Static Discharge Precautions

The electronic circuits in the 2040 are completely protected from static electricity damage only while the frame is assembled. It is extremely important that all service personnel always use adequate static protection when servicing the electronic systems of the 2040. *Whenever you are touching wires, you should be using static protection.*

Static Protection Equipment

The necessary equipment for proper static protection is:

- 1 static wrist strap; 3M part number 2214 or equivalent,
- 1 grounding plug; 3M part number 61038 or equivalent,
- 1 test lead with a banana plug on one end and an alligator clip on the other; Smith part number N132B699 or equivalent.

Stryker has available the following equipment for proper static protection:

- Complete static protection system – part number 3000–000–753
- 1 grounding plug – part number 3000–000–754
- 1 static wrist strap – part number 3000–000–755
- 1 test lead – part number 3000–000–756

⚠ CAUTION

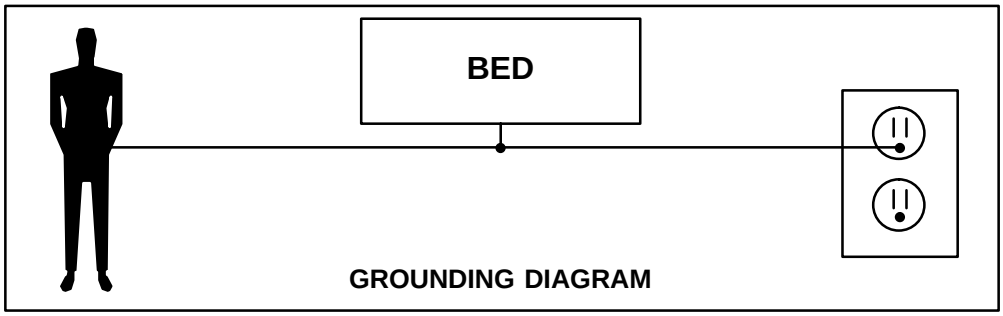
All electronic service parts will be shipped in static shielding bags. Do not open the bags until you have completed steps 2 and 3 of the static protection procedure. Do not place unprotected circuit boards on the floor. All circuit boards to be returned to Stryker Medical should be shipped in the static shielding bags the new boards were shipped in.

Static Protection Procedure

1. Unplug the power cord from the wall receptacle.

2. Insert the grounding plug into a properly grounded hospital grade wall receptacle. Plug the banana plug of the test lead into the receptacle on the grounding plug. Connect the alligator clip on the other end of the test lead to a ground point on the frame.

3. Place the static control wrist strap on your wrist. Connect the alligator clip at the other end of the wrist strap cord to a ground point on the frame.



GROUNDING DIAGRAM

Notes

GENERAL INFORMATION

This section contains tool lists and step–by–step procedures to assist with the maintenance and servicing of the base portion of your equipment.

In the text, the words “right” and “left” refer to the right and left sides of a patient lying face up on the litter.

BASE MAINTENANCE CONTENTS

Brake Pedal Replacement 5–2

Lift Motor and Capacitor Removal and Replacement 5–3

Lift Housing Removal and Replacement 5–4, 5–5

Lift Potentiometer Replacement and Adjustment 5–6, 5–7

Lift Potentiometer “Burn–In” Procedure 5–7

Lift Motor Coupler Replacement 5–8

Power and Sensor Coil Cord Replacement 5–9, 5–10

Drive Motor Removal and Replacement 5–11

Drive Wheel Removal and Replacement 5–11

Battery Removal and Replacement 5–12

Power Board Removal and Replacement 5–13

Brake Pedal Replacement

Required Tools:

5/16” Hex Allen Wrench	Torque Wrench	Loctite 242
Hammer	Punch	#2 Phillips Screwdriver
Bungee Cords (or Equivalent)		

Procedure:

1. Raise the litter to the full up position.
2. Unplug the power cord from the wall socket and push the battery power on/off switch to the “OFF” position.
3. Using a #2 Phillips screwdriver, remove the three screws holding both the head end and the foot end upper lift covers. If necessary, hold the covers out of the way by using bungee cords (or the equivalent) to secure them to the litter top.
4. Using a 5/16” hex Allen wrench, remove the two bolts holding the brake pedal to the brake rod.
5. Using a hammer and punch, remove the roll pins holding the brake shaft crank to the brake rod on both the head and the foot end.
6. Push the brake rod through the frame until the brake pedal is clear. Remove the brake pedal.
7. Reverse steps 1 – 6 to attach the new brake pedal.

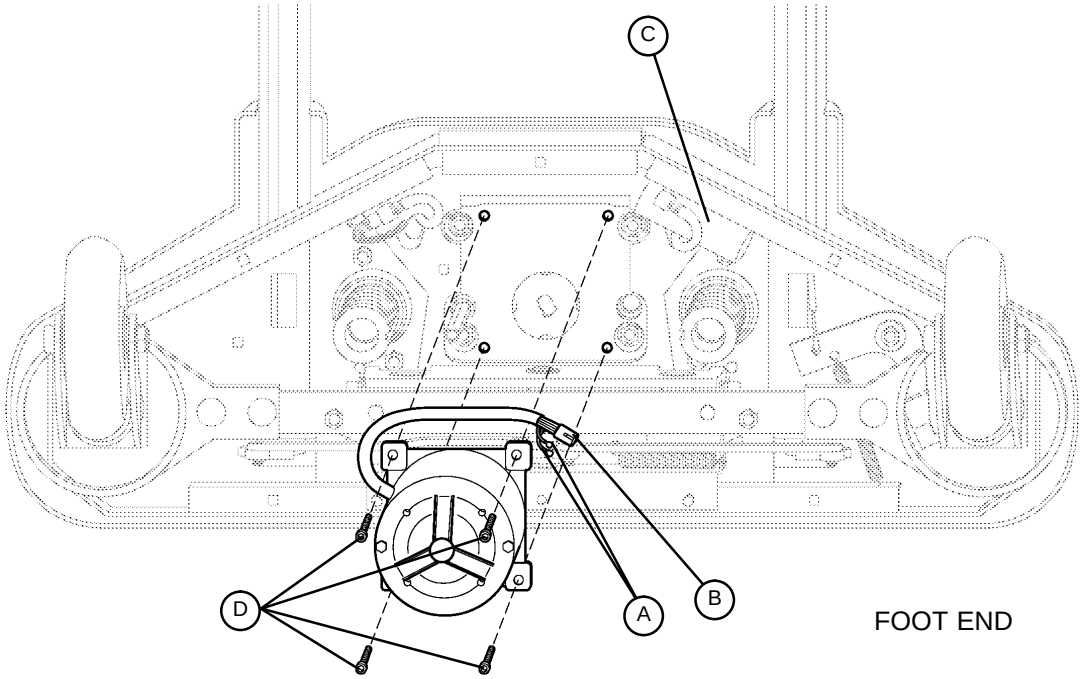
NOTE

Use Loctite 242 when reinstalling the bolts and torque the bolts to 25 foot–pounds.

Lift Motor and Capacitor Removal and Replacement

Required Tools:

3/8” Socket Wrench w/Extension	5/16” Socket Wrench	Floor Jack
Side Cutters	7/16” Open End Wrench	2 x 4 (or Equivalent)



Procedure:

NOTE
If you need more space to work under the base frame, place a 2 x 4 across the base frame rails and use a floor jack to raise the base frame off the floor.

1. Unplug the power cord from the wall socket and push the battery power on/off switch to the “OFF” position.
2. Using a 5/16” socket wrench, remove the six bolts holding the lower lift cover to the base and remove the cover.
3. Disconnect the two connectors (A) at the motor capacitor.
4. Disconnect the white connector (B) from the power cord.
5. Using side cutters, cut the cable ties holding the capacitor (C) to the base and remove the capacitor.
6. Using a 3/8” socket wrench, remove the four screws (D) holding the motor assembly in the lift housing and remove the motor assembly.
7. Reverse steps 1 – 6 to install the new motor.

NOTE
The drive shaft on the new motor might need to be turned with a 7/16” open end wrench to align with the coupler.

The procedure for lift motor and capacitor removal and replacement is the same for both ends of the bed.

Lift Housing Removal and Replacement

Required Tools:

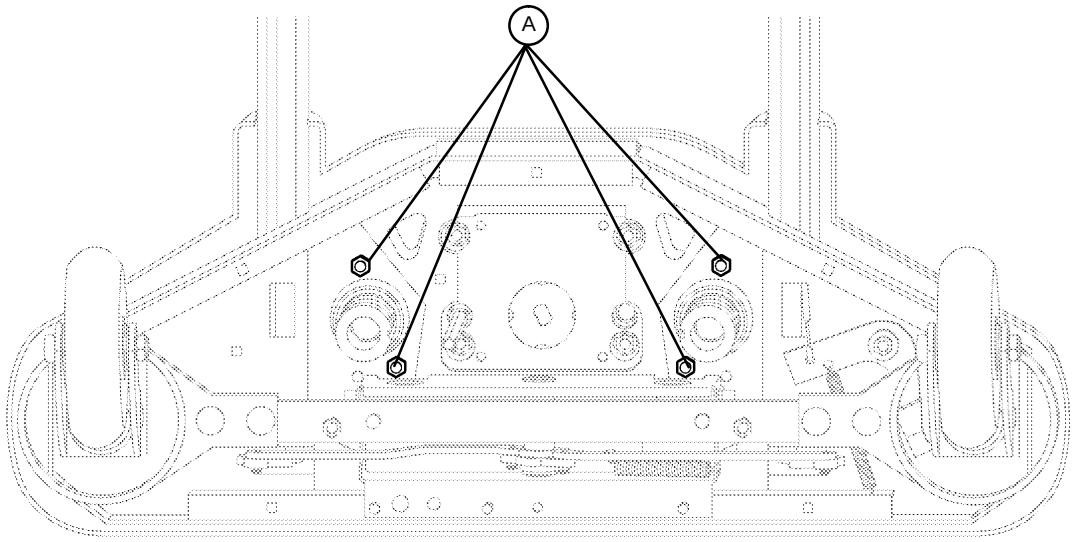
#2 Phillips Screwdriver	Bungee Cord (or Equivalent)	5/16” Socket Wrench
Side Cutters	9/16” Socket Wrench	Floor Jack
7/32” Hex Allen Socket Wrench	Sawhorses (or Equivalent)	2 x 4 (or Equivalent)
3/8” Socket Wrench (w/ 6” extension)		

Procedure:

NOTE
If you need more space to work under the base frame, place a 2 x 4 across the base frame rails and use a floor jack to raise the base frame off the floor.

1. Unplug the power cord from the wall socket and push the battery power on/off switch to the “OFF” position.
2. Using a 5/16” socket wrench, remove the six bolts holding the lower lift cover to the base and remove the cover.
3. Using a #2 Phillips screwdriver, remove the three screws holding the upper lift cover to the base. If necessary, hold the upper and lower covers out of the way by using bungee cords (or the equivalent) to secure them to the litter top.
4. Remove the lift motor and capacitor (refer to the procedure on page 5–3).
5. Remove the lift potentiometer (refer to the procedure on page 5–6).
6. Using a 5/16” socket wrench, remove the cable clamps holding the power and sensor coil cords on top of the lift housing assembly. Cut the cable ties and disconnect the coil cords from under the lift housing. The power and sensor coil cords are now free of the lift housing assembly. Drape them up out of the way.
7. Using a 7/32” hex Allen socket, remove the two screws holding the lift screws to the header crossbar plate.
8. Lift the litter top up and support it about 6” above the lift screws on sawhorses or the equivalent.

Lift Housing Removal and Replacement (Continued)



FOOT END – BOTTOM VIEW

9. Under the base, using a 9/16” socket, remove the four nuts (A) holding the lift housing to the base.
10. Lift up and out on the lift housing assembly to remove it from the base.

⚠ CAUTION

To ensure proper reattachment of the power and sensor coil cords, refer to the procedure on page 5–9. Refer to the procedure on page 5–6 for reattachment of the lift potentiometer.

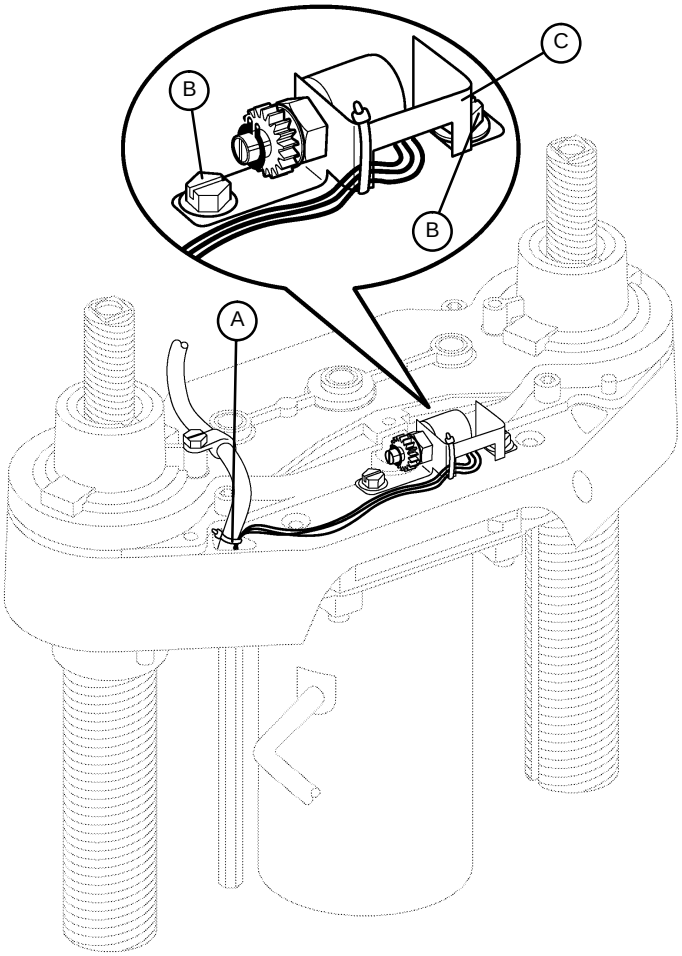
11. Reverse steps 1 – 10 to reinstall the lift housing assembly after service is completed.

NOTE
The procedure for lift housing removal and replacement is the same for both ends of the bed.

Lift Potentiometer Replacement and Adjustment

Required Tools:

#2 Phillips Screwdriver
3/8” Open End Wrench
Bungee Cord (or equivalent)
Side Cutters
5/16” Socket Wrench



Procedure:

1. Raise the litter to the full up position.
2. Unplug the power cord from the wall socket and push the battery power on/off switch to the “OFF” position.
3. Using a 5/16” socket wrench, remove the six bolts holding the lower lift cover to the base and remove the cover. If necessary, hold the covers out of the way by using bungee cords (or the equivalent) to secure them to the litter top.
4. Using a #2 Phillips screwdriver, remove the three screws holding the upper lift cover to the base. If necessary, hold the covers out of the way by using bungee cords (or the equivalent) to secure them to the litter.
5. Using side cutters, cut the cable tie (A) holding the pot cable to the coil cord.
6. Unplug the pot cable from the sensor coil cord. If replacing a pot at the head end of the bed, unplug the cables attached to the brake sensor switch.
7. Pull the pot cable up through the base.
8. Using a 3/8” open end wrench, remove the two bolts (B) holding the pot housing (C) to the lift housing.

Lift Potentiometer Replacement and Adjustment (Continued)

9. Lift up and out on the pot housing assembly to remove it from the lift housing.
10. Before installing the new pot on the bed, turn it clockwise until it stops. Turn it back counterclockwise two full (360°) revolutions. This allows a ”window” position for proper upper and lower limits.
11. Reverse steps 4–9 to install the new pot and pot housing assembly.
12. After installing the new pot, the “burn–in” procedure below must be followed.

NOTE
Be sure to maintain the pot position while installing.

Lift Potentiometer ”Burn–In” Procedure

1. Unplug the power cord from the wall socket and push the battery power on/off switch to the “OFF” position.
2. On the foot board control panel, hold down the Bed Motion Lock and Knee Lock Out buttons simultaneously.
3. While holding down the above two buttons, plug the power cord into the wall socket. Release the two buttons. The Siderail Control Lights LED on the foot board control panel should be flashing, indicating the bed is in the diagnostics mode.
4. From the foot board, run the litter full up to a “hard stop”.
5. Hold down the Bed Motion Lock button until the light flashes. If your bed has the **enhanced height option**, you must first press and hold the Knee Down button and then press the Bed Motion Lock button until the light flashes.
6. Release the button and unplug the power cord from the wall socket.
7. Plug the power cord back in to the wall socket. Run the bed to full down, then full up to verify the bed limits.
8. The distance between the floor and the top of the litter seat section (without a mattress) should be approximately 18.25” with the litter fully down and 32.5” with the litter fully up for a standard bed. For an enhanced height bed, the distances are 19.9” and 34.5”.
9. If your bed has the standard height option and is equipped with an I.V. Caddy, a lower height limit must be burned in. Run the litter down to 19.5 inches. Hold down the Bed Up/Down Lock button until the light flashes. If your bed has the enhanced height option, it is not necessary to burn–in the low height.

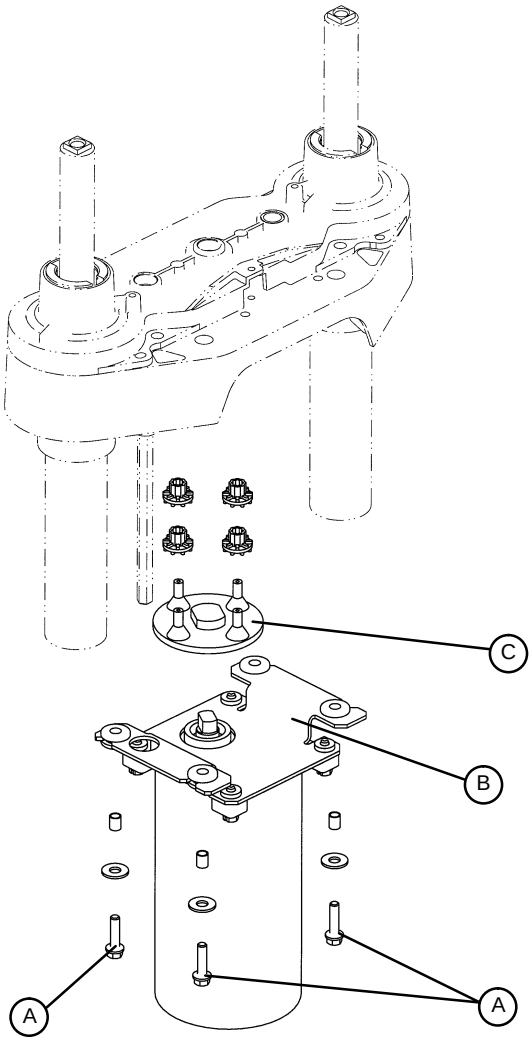
⚠ CAUTION

Do not run the litter all the way down while in the diagnostics mode. Damage to the bottom lift covers could result.

Lift Motor Coupler Replacement

Required Tools:

5/16” Socket Wrench
3/8” Socket Wrench (w/6” Extension)
Floor Jack
2 x 4 (or Equivalent)



Procedure:

NOTE

If you need more space to work under the base frame, place a 2 x 4 across the base frame rails and use a floor jack to raise the base frame off the floor.

1. Unplug the power cord from the wall socket and push the battery power on/off switch to the “OFF” position.
2. Using a 5/16” socket wrench, remove the six bolts holding the lower lift cover to the base and remove the cover.
3. Using a 3/8” socket with an extension, remove the four bolts (A) holding the isolation plate (B) to the lift housing and lower the lift motor and isolation plate assembly to allow access to the coupler (C).
4. The motor coupler can now be removed from the lift housing.
5. Reverse steps 1 – 4 to install the new motor coupler and bushings.

Power and Sensor Coil Cord Replacement

Required Tools:

#2 Phillips Screwdriver	Side Cutters	5/16” Socket Wrench
Bungee Cord (or equivalent)	5/16” Nut Driver	Floor Jack
2 x 4 (or Equivalent)		

Procedure:

NOTE

If you need more space to work under the base frame, place a 2 x 4 across the base frame rails and use a floor jack to raise the base frame off the floor.

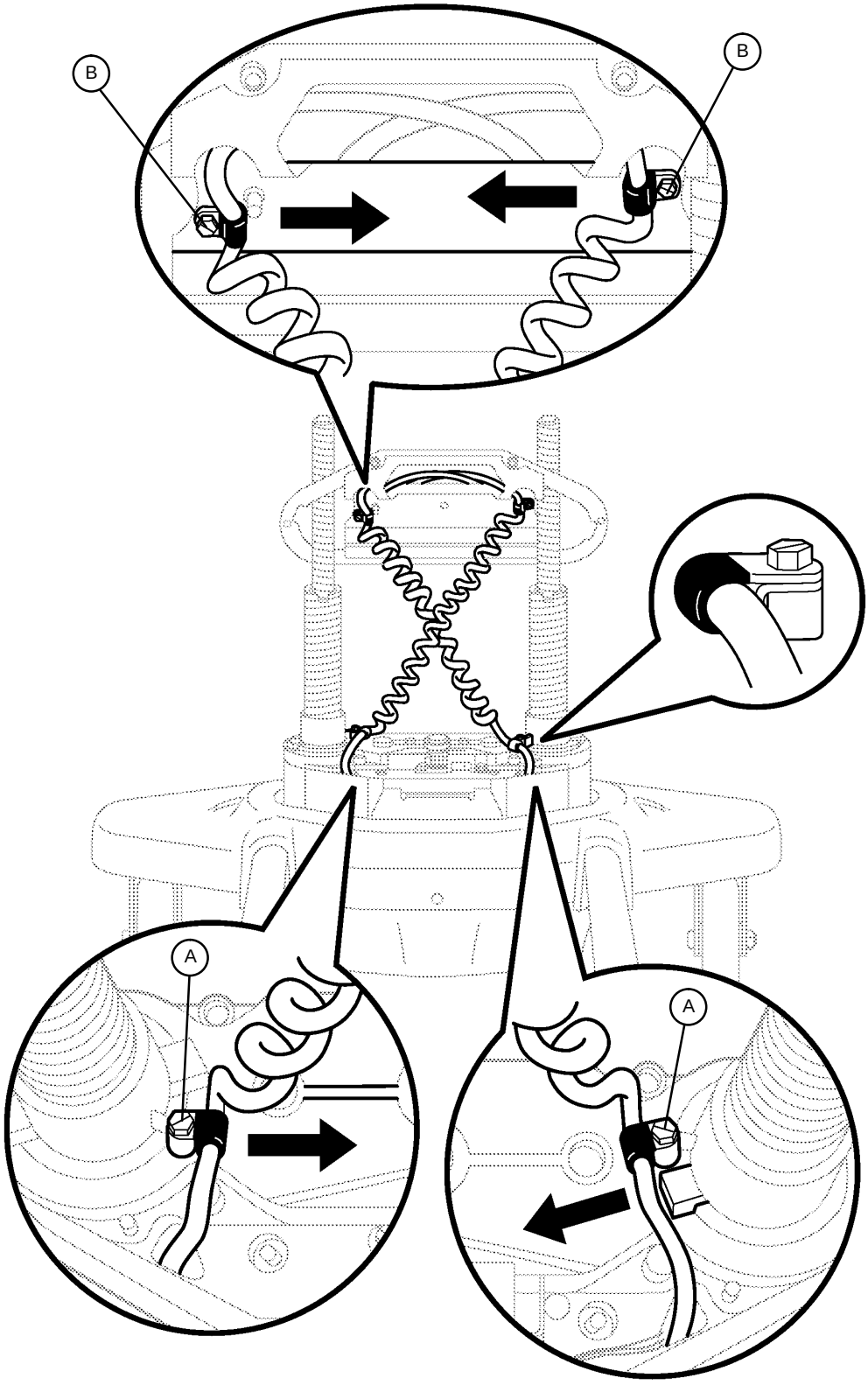
1. Unplug the power cord from the wall socket and push the battery power on/off switch to the “OFF” position.
2. Using a 5/16” socket wrench, remove the six bolts holding the lower lift cover to the base and remove the cover.
3. Using a #2 Phillips screwdriver, remove the three screws holding the upper lift cover to the base. If necessary, hold the covers out of the way by using bungee cords (or the equivalent) to secure them to the litter top.
4. Using side cutters, cut the cable ties holding the power and sensor coil cords to the base. Remove the ground wire coming from the sensor cord that is attached to the base (note the star washer arrangement).
5. Disconnect the cables going to the motor and the lift potentiometer (at the head end, the sensor cord is also attached to the brake switch sensor).
6. Pull both cords up through the frame of the bed and the lift housing.
7. Using a 5/16” socket wrench, remove the two screws (A) holding the cable clamps* to the top of the lift housing.
8. Using a 5/16” socket wrench, remove the two screws (B) securing the cable clamps* to the underside of the header crossbar assembly.
9. Pull both coil cords up through the header crossbar assembly.
10. Disconnect the power and sensor coil cords from the connectors.
11. The cords should now be completely removed from the bed. Reverse the above steps to install the new power and sensor cords.*

⚠ **CAUTION**

---

* When the power and sensor coil cords are being replaced, secure the cable clamps to the cords at the first coil both on the top and on the bottom to ensure there is not too much slack in the cords between the top of the lift housing assembly and the bottom of the header crossbar. Be sure the clamps are fastened at exactly the correct angle, as shown by the arrows in the illustration on page 5–10. Arrange the cords exactly as shown in the illustration (left in front of right). **If this is not done correctly, damage to the cords will result.**

Power and Sensor Coil Cord Replacement Illustration



VIEW FROM CENTER OF BED

Drive Motor Removal and Replacement

Required Tools:

Phillips Screwdriver	1/2” Socket Wrench	Bungee Cords
Floor Jack	T27 Torx	

Procedure:

1. Raise the litter to the full up position.
2. Unplug the power cord from the wall socket and push the battery power on/off switch to the “OFF” position.
3. Using a Phillips screwdriver, remove the four screws holding the base hood to the base frame.
4. Open the cable clamp at the head end, left side of the base frame and remove the cables from the clamp.
5. Lift the base hood and support it from the litter frame using bungee cords or the equivalent.
6. Using a T27 Torx, remove the four screws holding the power board cover to the side of the electronics box. Remove the two motor wires from the power board and remove the T27 Torx ground screw.
7. Apply the brakes and disengage the drive wheel. Place a floor jack under the leaf spring at the foot end of the bed and raise the wheels approximately three inches off the floor.
8. Using a 1/2” socket wrench, remove the four bolts holding the drive motor to the leaf spring.

⚠ CAUTION

Support the drive motor before removing the four bolts to prevent it from falling to the floor and becoming damaged.

9. Reverse steps 1 – 8 to install the new drive motor.
10. Run through the operation of the power drive wheel to ensure it is operating properly before returning the unit to service.

Drive Wheel Removal and Replacement

Required Tools:

Phillips Screwdriver	1/2” Socket Wrench	Bungee Cords
Floor Jack	T27 Torx	

Procedure:

1. Remove the drive motor (see page 5–11).
2. Using a 1/2” socket wrench, remove the bolt holding the wheel to the drive motor.
3. Slide the wheel off the motor shaft.
4. Reverse steps 1 – 3 to install the new drive wheel and reinstall the drive motor.

Battery Removal and Replacement

Required Tools:

Torx T27	7/16” Wrench
1/2” Socket Wrench	Bungee Cords
Phillips Screwdriver	

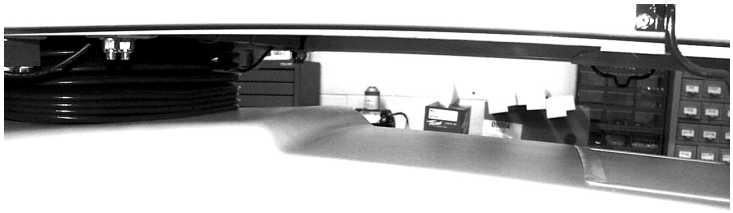
Procedure:

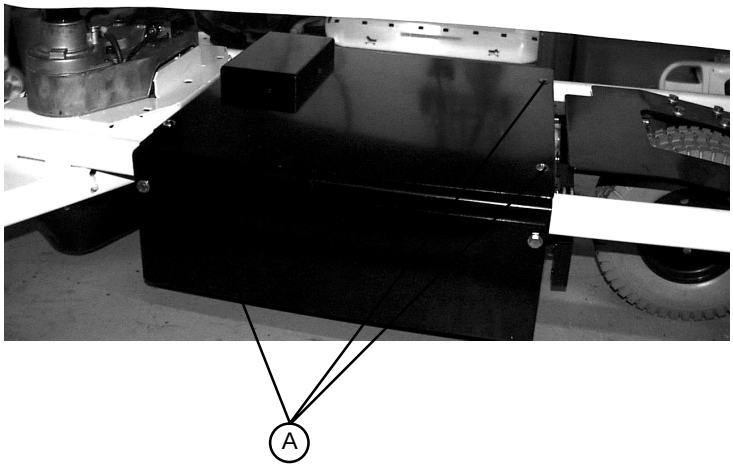
1. Raise the litter to full up. Unplug the power cord from the wall socket and push the battery power on/off switch to the “OFF” position.
2. Using a Phillips screwdriver, remove the four screws holding the base hood to the base frame.
3. Lift the base hood and support it from the litter frame using bungee cords or the equivalent.
4. Properly ground yourself (see page 4–13 for static discharge precautions).
5. Open the cable clamp at the head end, left side of the base frame and remove the cables from the clamp.
6. Using a Torx T27, remove the four screws (A) holding the electronics box cover and remove the cover.
7. Disconnect the two battery cables (B).

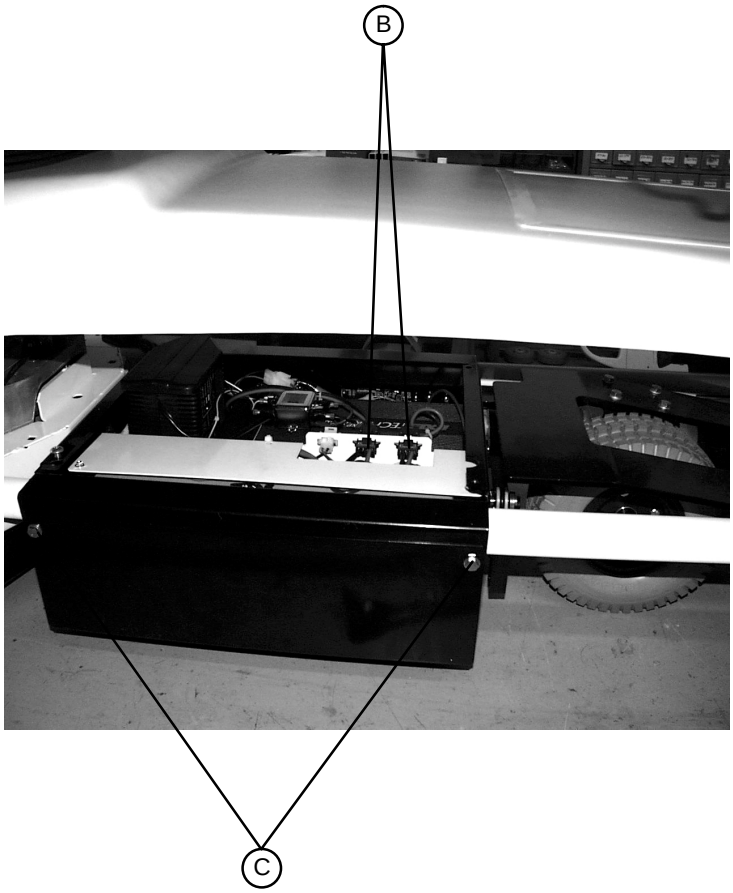
⚠ WARNING

The battery tray assembly weighs 50 pounds. Use caution when removing the two hex head screws securing it to the base frame or personal injury could result.
Battery posts, terminals and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. **Wash hands after handling.**

8. Support the battery tray assembly from the bottom. Using a 7/16” hex socket or wrench, remove the two screws (C) supporting the battery tray.
9. The back of the battery tray assembly has a lip which catches on the electronics box. Lift up and out to remove the battery tray assembly.
10. Reverse steps 1 – 9 to install the new batteries. Complete the last four items of the set–up procedures on page 1–6.







Power Board Removal and Replacement

Required Tools:

Phillips Screwdriver 1/8” Allen Wrench Bungee Cords
T27 Torx

Procedure:

1. Raise the litter to the full up position.
2. Unplug the power cord from the wall socket and push the battery power on/off switch to the “OFF” position.
3. Using a Phillips screwdriver, remove the four screws holding the base hood to the base frame.
4. Open the cable clamp at the head end, left side of the base frame and remove the cables from the clamp.
5. Lift the base hood and support it from the litter frame using bungee cords or the equivalent.
6. Using a T27 Torx, remove the four screws holding the cover to the side of the electronics box.
7. Properly ground yourself (see page 4–13 for static discharge precautions).
8. Using a 1/8” Allen wrench, remove the four bolts and standoffs holding the power board to the electronics box.
9. Remove all cables from the power board and remove the board.

NOTE

Notice the cable connections so you can connect them properly to the new power board.

10. Reverse steps 1 – 8 to install the new power board.

Notes

GENERAL INFORMATION

This section contains tool lists and step–by–step procedures to assist with the maintenance and servicing of the litter portion of your equipment.

In the text, the words “right” and “left” refer to the right and left sides of a patient lying face up on the litter.

LITTER MAINTENANCE CONTENTS

Scale System Diagnostics and Calibration 6–2, 6–3
Load Cell Replacement 6–4
Head Motor Removal and Replacement 6–5
Knee Motor Removal and Replacement 6–6
Power Supply Removal and Replacement 6–7
CPU Board Removal and Replacement 6–7
Fowler and Lift Potentiometer “Burn–In” Procedure 6–8
AC Crossover Board Replacement 6–9
Display/CPU Board Replacement 6–9
Control Bar Potentiometer Replacement 6–10, 6–11
Control Bar Potentiometer “Burn–In” Procedure 6–12
Optional Smart TV Interface “Burn–In” Procedure 6–13

Scale System Diagnostics and Calibration

Diagnostic Mode Functions:

1. **Calibrate Scale:** This is required in the field if a CPU board or a load cell is replaced.
2. **Display Corner:** This function displays the individual reference numbers for each load cell assembly and can be used to isolate a defective load cell.
3. **Init. to Defaults:** This may be required in the field when replacing a CPU board or a load cell.
4. **Erase E–prom:** This is a factory setting not used in the field.
5. **Display Factor:** This is a factory setting not used in the field.
5. **Exit Diagnostics:** Changes made in the diagnostic mode **must** be saved in permanent memory using this function. Switching off power without saving will reset all variables to their previous values.

Diagnostic Mode:

NOTE
It requires **two people** to enable the diagnostic mode for the scale system.

1. To enter diagnostic mode, unplug the power cord from the wall socket.
2. Press and **hold down** the LBS/KGS button.
3. While still holding the LBS/KGS button, plug the power cord into the wall socket.
4. After two seconds, release the LBS/KGS button. The LCD should display “CALIBRATE SCALE”. The diagnostic mode is now active.

Displaying Individual Load Cell Outputs:

A defective load cell can be detected by entering diagnostics and displaying individual load cell outputs.

1. Enter the diagnostic mode. The LCD will display “CALIBRATE SCALE” when the diagnostic mode is activated.
2. Repeatedly press and release the up or down arrow button (ZERO or SCALE ON/OFF) until the LCD displays “DISPLAY CORNER”.
3. Press and release the ENTER button (LBS/KGS). The LCD should display “PICK CORNER NOW”.

   The four buttons listed in the group below function as POSITION buttons corresponding with the four corners of the litter. Whenever the LCD displays “PICK CORNER NOW”, press one of these buttons to select the load cell assembly at the desired corner.

   A. ZERO = head end, patient’s left side

   B. CHANGE EQUIP. = head end, patient’s right side

   C. TREND/FOWLER ANGLE = foot end, patient’s right side

   D. LBS/KGS = foot end, patient’s left side

4. Press and release the position button that corresponds with the load cell to be checked. The LCD should display “X/X=NNN.N”. ”X/X” represents the initials of the selected corner, i.e. H/R will be displayed for the patient’s head end, right side. ”NNN.N” represents the resistance of the load cell.
5. Repeat step four for each corner. Head end weight readings will normally be lower than foot end weights. Weight readings should be constant. A drifting 000.0 or 999.9 weight, or a reading that does not change when weight is applied to that corner of the litter indicates a problem with the selected load cell assembly or load cell cable.
6. When all the load cell outputs have been checked, repeatedly press and release the SCALE ON/OFF button until the LCD displays “EXIT DIAGNOSTICS”. Press the ENTER button (LBS/KGS) to exit diagnostics.

Scale System Diagnostics and Calibration

Verifying Scale Accuracy:

1. Zero the empty litter. Place a known weight on the center of the litter; the heavier the better and no less than 100 pounds. The displayed weight should be within 1% of the actual weight.
2. If the displayed weight is not accurate, remove the weight from the litter and proceed to the Scale Calibration section.

Scale Calibration:

NOTE

It requires **two people** to enable the calibration mode for the scale system.
Raise the siderails when calibrating the scale to avoid getting inaccurate scale readings due to possible interference between the siderails and the casters.

Calibrate the scale system with a known 200 pound weight. If exactly 200 pounds is not available, the factory default for calibration will have to be changed as described in step 8.

1. To enter the calibration mode, unplug the power cord from the wall socket.
2. Press and **hold down** the LBS/KGS button.
3. While still holding the LBS/KGS button, plug the power cord into the wall socket.
4. After two seconds, release the LBS/KGS button. The LCD should read “CALIBRATE SCALE”. The calibration mode is now active.
5. Using the up or down arrow button (ZERO or SCALE ON/OFF), toggle through the menu until “INIT. TO DEFAULTS” is displayed. Press and hold the ENTER button (LBS/KGS) until “SAVING DEFAULTS” is displayed. Release the ENTER button.
6. Using the up or down arrow buttons (ZERO or SCALE ON/OFF), toggle through the menu until “CALIBRATE SCALE” is displayed.
7. Press and hold the ENTER button (LBS/KGS). Zero the bed, following the displayed instructions. When the bed is zeroed, the LCD should display “REF X100=<2 0000”. This is the factory default for 200 pounds. If 200 pounds will be used to calibrate the scale, proceed to step 9.
8. If exactly 200 pounds is not available, change the display to match the weight you are using. Pressing the TREND/FOWLER ANGLE button will move the cursor position to the right. Pressing the up arrow (ZERO) button will increase the numbers. Pressing the down arrow (SCALE ON/OFF) button will decrease the numbers. Scroll through the numbers until they match the weight you will use for calibration.
9. Press and release the SCALE ON/OFF button and the LCD will display “PRESS REV. TREND”. Press the button with the Reverse Trendelenburg symbol (feet down/head up) until the bed reaches full reverse Trend. Release the button and the LCD will display “DO NOT TOUCH BED”.
10. The LCD will display “PRESS TREND.” Press the button with the Trendelenburg symbol (feet up/head down) until the bed reaches full trend. Release the button and the LCD will display “DO NOT TOUCH BED”.
11. The LCD will display “CALIBRATE SCALE”. This indicates the calibration procedure is complete.
12. Exit scale calibration by pressing the up arrow button (ZERO) until the LCD displays “EXIT DIAGNOSTICS”. Press the ENTER (LBS/KGS) button to exit.
13. Level the bed at a full up or full down position. Remove the weight and zero the bed.
14. Verify scale accuracy and functionality before returning the bed to service.

Load Cell Replacement

Required Tools:

9/16” Socket Wrench 9/16” Open End Wrench Saw Horse (or Equivalent)
Wire Cutters

Replacement Procedure:

1. Raise the Fowler or knee section, depending which end of the litter needs service.
2. Unplug the load cell connector from the load cell cable.
3. Using wire cutters, remove the wire ties holding the cable to the frame.
4. Using a 9/16” socket and a 9/16” open end wrench, remove the two bolts holding the load cell to the litter cross tube and remove the load cell.
5. Using a saw horse or the equivalent, support the litter at the end where the load cell was removed. Reverse the above procedure to install the new load cell.

NOTE
The scale calibration procedure must be performed after the load cell is replaced (see page 6–3).

Head Motor Removal and Replacement

Required Tools:

T27 Torx
7/16” Socket Wrench
3/8” Socket Wrench
Wire Cutters

Procedure:

1. Run the litter to the full up position and remove the mattress from the litter.
2. Fold the foot section back toward the head end. Electrically run the knee section to full up. If the knee section will not move electrically, pull the foot section toward the head end while pulling the CPR release handle (located at the head end of the bed). The knee section will raise.
3. Using a T27 torx, remove the four screws holding the cover to the actuator box and remove the cover.
4. Remove the two CPR release cables from the CPR release bracket. Using a 3/8” socket wrench underneath the actuator box, remove the two bolts holding the release bracket to the actuator box and remove the bracket from the actuator box.
5. Disconnect all the electrical connections to the head motor and move aside any wiring that interferes with the removal of the motor.
6. Using a 3/8” socket wrench underneath the actuator box, remove the four bolts holding the motor mounting bracket to the actuator box. Lift up and out on the motor to remove it.
7. Remove the motor mounting bracket from the old motor and install it on the replacement motor.
8. Reverse steps 3 through 6 to install the replacement motor.
9. Verify the unit is working properly before returning it to service.

Knee Motor Removal and Replacement

Required Tools:

T27 Torx 7/16” Socket Wrench 3/8” Socket Wrench

Wire Cutters

Procedure:

1. Run the litter to the full up position and remove the mattress from the litter.
2. Fold the foot section back toward the head end. Electrically run the knee section to full up. If the knee section will not move electrically, pull the foot section toward the head end while pulling the CPR release handle (located at the head end of the bed). The knee section will raise.
3. Using a 7/16’ socket wrench, remove the mounting bolt on the litter for the knee dampening cylinder. This leaves the knee dampener mounted only to the seat panel.
4. Using a T27 torx, remove the four screws holding the cover to the actuator box and remove the cover.
5. Remove the two CPR release cables from the CPR release bracket. Using a 3/8” socket wrench underneath the actuator box, remove the two bolts holding the release bracket to the actuator box and remove the bracket from the actuator box.
6. Disconnect all the electrical connections going to the knee motor and move aside any wiring that could interfere with the removal of the motor.
7. Pull the foot panel toward the head end of the bed. This causes the knee motor linkage to roll past center and allows the motor to be removed without supporting the knee section.
8. Using a 3/8” socket wrench underneath the actuator box, remove the four bolts holding the motor mounting bracket to the actuator box. Lift up and out on the motor to remove it.
9. Remove the motor mounting bracket from the old motor and install it on the replacement motor.
10. Install the replacement motor.
11. Reverse steps 3 – 5 to reinstall the knee dampener, CPR bracket and actuator box cover.
12. Pull the foot panel toward the foot end of the bed. This causes the knee motor linkage to roll back past center.

⚠ CAUTION

If step 12 is not done, damage to the motor or linkage will occur.

13. Verify the bed is working properly before returning it to service.

Power Supply Removal and Replacement

Required Tools:

T27 Torx Needle–Nose Pliers

Procedure:

1. Run the litter to the full up position and remove the mattress from the litter.
2. Fold the foot section back toward the head end of the bed. Electrically run the knee section to full up. If the knee section will not move electrically, pull the foot section toward the head end of the bed while pulling the CPR release handle (located at the head end of the bed). The knee section will raise.
3. Using a T27 torx, remove the four screws holding the cover to the actuator box and remove the cover.
4. Properly ground yourself (see page 4–13 for static discharge precautions).
5. Unplug all electrical connections from the power supply.
6. Using needle–nose pliers, squeeze the four stand–offs supporting the power supply and pull up gently on the power supply to remove it.
7. Reverse steps 2 through 5 to install the new power supply.
8. Verify the unit is working properly before returning it to service.

CPU Board Removal and Replacement

Required Tools:

T27 Torx Needle–Nose Pliers

Replacement Procedure:

1. Run the litter to the full up position and remove the mattress from the litter.
2. Fold the foot section back toward the head end of the bed. Electrically run the knee section to full up. If the knee section will not move electrically, pull the foot section toward the head end of the bed while pulling the CPR release handle (located at the head end of the bed). The knee section will raise.
3. Using a T27 torx, remove the four screws holding the cover to the actuator box and remove the cover.
4. Properly ground yourself (see page 4–13 for static discharge precautions).
5. Unplug all electrical connections from the CPU board.
6. Press the six stand–offs away from the board while gently lifting the board up and out.
7. Install the replacement CPU board.

NOTE
After the replacement CPU board is installed, the “burn–in” procedure must be performed for the Fowler and lift motor potentiometers (see page 6–8)

If the bed is equipped with a scale system, the scale calibration procedure must also be performed after the replacement CPU board is installed (see page 6–3).

Fowler and Lift Potentiometer ”Burn–In” Procedure

NOTE

It requires **two people** to enable the diagnostics mode for the bed.

1. Unplug the bed power cord from the wall socket.
2. On the foot board control panel, hold down the bed motion lock button and the button to lock out the siderail controls for the knee. While still holding the buttons, plug the bed power cord into the wall socket. Release the foot board buttons. The siderail control lights LED should be flashing to indicate the bed is in diagnostics mode.
3. Using the foot board controls, run the Fowler up to 90°. Press and hold the button on the foot board to lock out the siderail controls for the back until the padlock shaped LED flashes. Release the button.
4. Using the foot board controls, run the Fowler down to 0°. Press and hold the button on the foot board to lock out the siderail controls for the knee until the padlock shaped LED flashes. Release the button..
5. To “burn in” the Bed Up/Down limits, raise the bed completely up until it can’t go any farther. Press and hold the “Bed Motion Lock” button. The “Bed Motion Lock” LED will light. Continue to hold the “Bed Motion Lock” button until the “Bed Motion Lock” LED flashes. The flashing LED indicates the limits have been set. Release the “Bed Motion Lock” button and unplug the power cord from the wall socket to complete the “burn–in” mode. If your bed has the **enhanced height option**, you must first press and hold the Knee Down button and then press the Bed Motion Lock button until the light flashes.
6. Plug the power cord into the wall socket and verify the back and bed lift limits are set properly before returning the unit to service.

NOTE

The distance between the floor and the top of the litter seat section (without a mattress) should be approximately 18.25” with the litter fully down and 32.5” with the litter fully up for a standard bed. For an enhanced height bed, the distances are 19.9” and 34.5”.

7. If your bed has the standard height option and is equipped with an I.V. Caddy, a lower limit must be burned in. Run the litter down to 19.5 inches. Hold down the Bed Up/Down Lock button until the light flashes. If your bed has the enhanced height option, it is not necessary to burn–in the low height.

⚠ CAUTION

Do not run the litter all the way down while in the diagnostics mode. Damage to the bottom lift covers could result.

AC Crossover Board Replacement

Required Tools:

T27 Torx	1/2” Box End Wrench	#2 Phillips Screwdriver
Wire Cutters	Small Flat Blade Screwdriver	Needle Nose Pliers
5/16” Nut Driver		

Replacement Procedure:

1. Follow steps 1 – 9 of the control bar potentiometer replacement procedure on page 6–11.
2. Using a T–27 Torx, remove the 2 bolts holding the AC crossover board cover to the head end frame and remove the cover.
3. Disconnect all wires from the AC crossover board.
4. Using needle nose pliers, release the four mounting stand–offs from the board and remove the board.
5. Reverse steps 1 – 4 to install the new board.
6. Reverse steps 1 – 9 of the control bar potentiometer replacement procedure on page 6–11 to reassemble the bed.

Display/CPU Board Replacement

Required Tools:

T27 Torx	1/2” Box End Wrench	#2 Phillips Screwdriver
Wire Cutters	Small Flat Blade Screwdriver	Needle Nose Pliers
5/16” Nut Driver		

Replacement Procedure:

1. Follow steps 1 – 9 of the control bar potentiometer replacement procedure on page 6–11.
2. Disconnect all wires from the display/CPU board.
3. Using a #2 Phillips screwdriver, remove the six screws holding the display/CPU board to the control bar cover and remove the board.
4. Reverse steps 2 & 3 to install the new board. After the new board has been installed, the potentiometer “burn–in” procedure must be performed (see page 6–12).
5. Reverse steps 1 – 9 of the control bar potentiometer replacement procedure on page 6–11 to reassemble the bed.

Control Bar Potentiometer Replacement

Required Tools:

T27 Torx	1/2” Box End Wrench	#2 Phillips Screwdriver
Wire Cutters	Small Flat Blade Screwdriver	5/16” Nut Driver

Replacement Procedure:

1. Raise the litter and the head end to the full up position.
2. Remove the head board from the bed.
3. Unplug the power cord from the wall socket and push the battery power on/off switch to the “OFF” position.
4. Using a 5/16” nut driver, remove the screw (A) holding the power cord clamp to the bumper weldment and remove the clamp from the bumper.

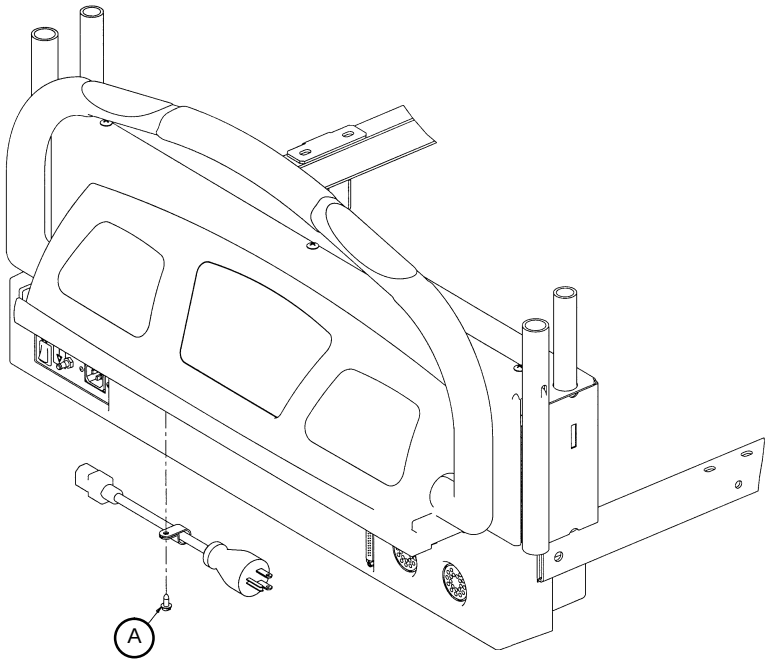


FIGURE 1

Control Bar Potentiometer Replacement (Continued)

5. Using a T27 Torx, remove the four bolts (C) at the head end of the bed holding the control bar mounting bracket to the head end (see Figure 2).
6. Using a #2 Phillips screwdriver, remove the three screws (D) holding the control bar cover to the head end of the bed (see Figure 3).
7. Standing at the head end, pull the control bar toward you and fold down the control bar mounting bracket.
8. Using a 1/2” wrench, remove the nut holding the potentiometer to the mount. Using wire cutters, cut the wire ties. Unplug the pot cable from the CPU display board and remove the pot.
9. Install the new potentiometer. Using a small flat blade screwdriver, turn the pot shaft clockwise until it stops. Turn it back counterclockwise 1/2 turn.
10. After the new pot has been installed, the potentiometer “burn–in” procedure must be performed (see page 6–12).
11. After performing the “burn–in” procedure, reverse steps 1 – 9 to reassemble the bed.
12. Test all functions before returning the unit to service.

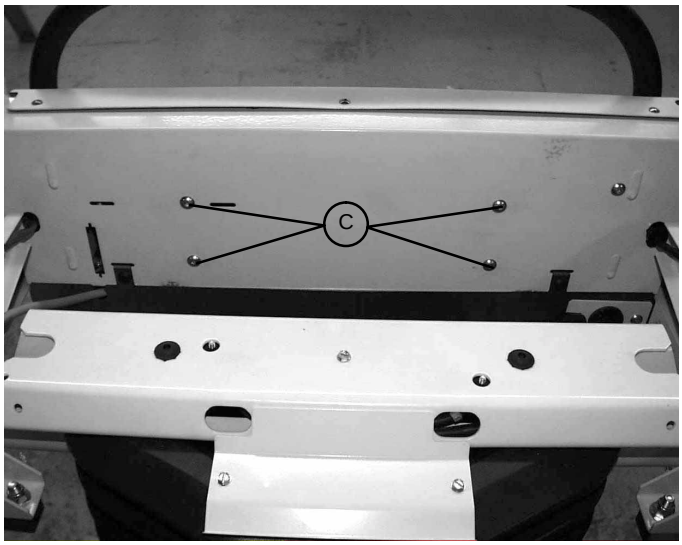


FIGURE 2

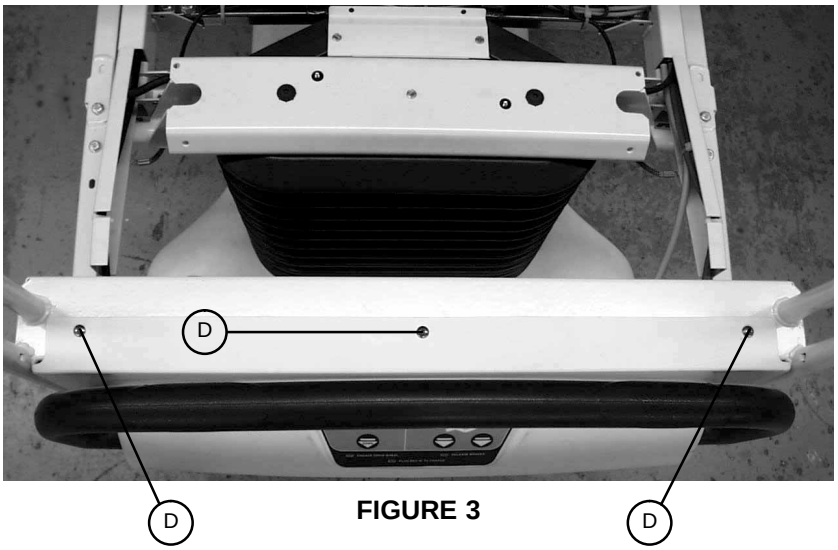


FIGURE 3

Control Bar Potentiometer ”Burn–In” Procedure

Required Tools:

T27 Torx	1/2” Box End Wrench	#2 Phillips Screwdriver
Wire Cutters	Small Flat Blade Screwdriver	5/16” Nut Driver

1. If it has not already been done, follow steps 1 – 9 of the control bar potentiometer replacement procedure on page 6–11.
2. Hold down the switch on the back of the drive CPU board.
3. With the switch depressed, move the battery power on/off switch to the “ON” position.
4. Verify the “ENGAGE DRIVE WHEEL” LED at the head end of the bed is flashing.
5. Move the battery power on/off switch to the “OFF” position, close the drive control box, and move the switch back to the “ON” position.
6. The “ENGAGE DRIVE WHEEL” LED will flash once. The control bar potentiometer is calibrated.
7. Grasp the drive handle and squeeze the motion release switch without moving the drive handle forward or back. Verify the bed does not move.
8. Release the bed brakes and engage the drive wheel. Standing at the head end of the bed, grasp the drive handle and squeeze the motion release switch while moving the drive handle away from you. Verify the bed moves forward.
9. Grasp the drive handle and squeeze the motion release switch while moving the drive handle toward you. Verify the bed moves backward.
10. Reverse steps 1 – 9 of the control bar potentiometer replacement procedure on page 6–11 to reassemble the bed.

Optional Smart TV Interface ”Burn–In” Procedure

This procedure is used for selecting the style of TV interface desired for your bed. If traditional TV is desired, no calibration is required. If optional Smart TV is available on the bed, select one of the TV manufacturers listed in the table below.

SET–UP

- Ensure the communication cable is connected between the bed and the Db37 wall port or the pillow speaker port of the nurse call system. If available, a bed communication tester can be used instead of the hospital wiring.

PROCEDURE

1. Place the bed in the lift potentiometer burn–in mode (see page 6–8).
2. Notice the Nurse Call LED (yellow) is flashing. Notice the Nurse Answer LED (green) is flashing on/off slowly.
3. Press and release the TV ON/OFF switch on the bed’s siderail once. Notice the Nurse Call LED flashes once. This is the first selection of TV manufacturers for the Smart TV mode. Notice the Nurse Answer LED (green) is flashing on/off slowly. The Nurse Answer LED will only light when the Nurse Call LED (yellow) is flashing.
4. Press and release the TV ON/OFF switch on the bed’s siderail to scroll to other TV manufacturers. Notice the number of times the Nurse Call LED flashes matches the number listed in the table below and represents the TV manufacturer selected.
5. When the desired TV manufacturer has been selected, unplug the bed power cord from the wall socket and plug it back in to complete the Smart TV burn–in procedure.

NOTE
If the bed is connected to a television during the burn–in procedure, the television will turn on when the correct setting is selected.

TV MANUFACTURER SELECTION FOR SMART TV BURN–IN PROCEDURE		
Press and release TV ON/OFF switch:	**Nurse Call LED (Yellow)**	**TV Manufacturer**
One time	One flash	RCA 1
Two times	Two flashes	RCA 2
Three times	Three flashes	Zenith 1
Four times	Four flashes	Zenith 2
Five times	Five flashes	Phillips/Magnavox
Six times	Six flashes	Magnavox (models 9120, 9220, 9320)
Seven times	Seven flashes	Traditional TV
Eight times	Eight flashes	Traditional Plus

Notes

GENERAL INFORMATION

This section contains tool lists and step–by–step procedures to assist with the maintenance and servicing of the siderail portion of your equipment.

In the text, the words “right” and “left” refer to the right and left sides of a patient lying face up on the bed.

SIDERAIL MAINTENANCE CONTENTS

Head and Foot End Siderail Cover Removal 7–2

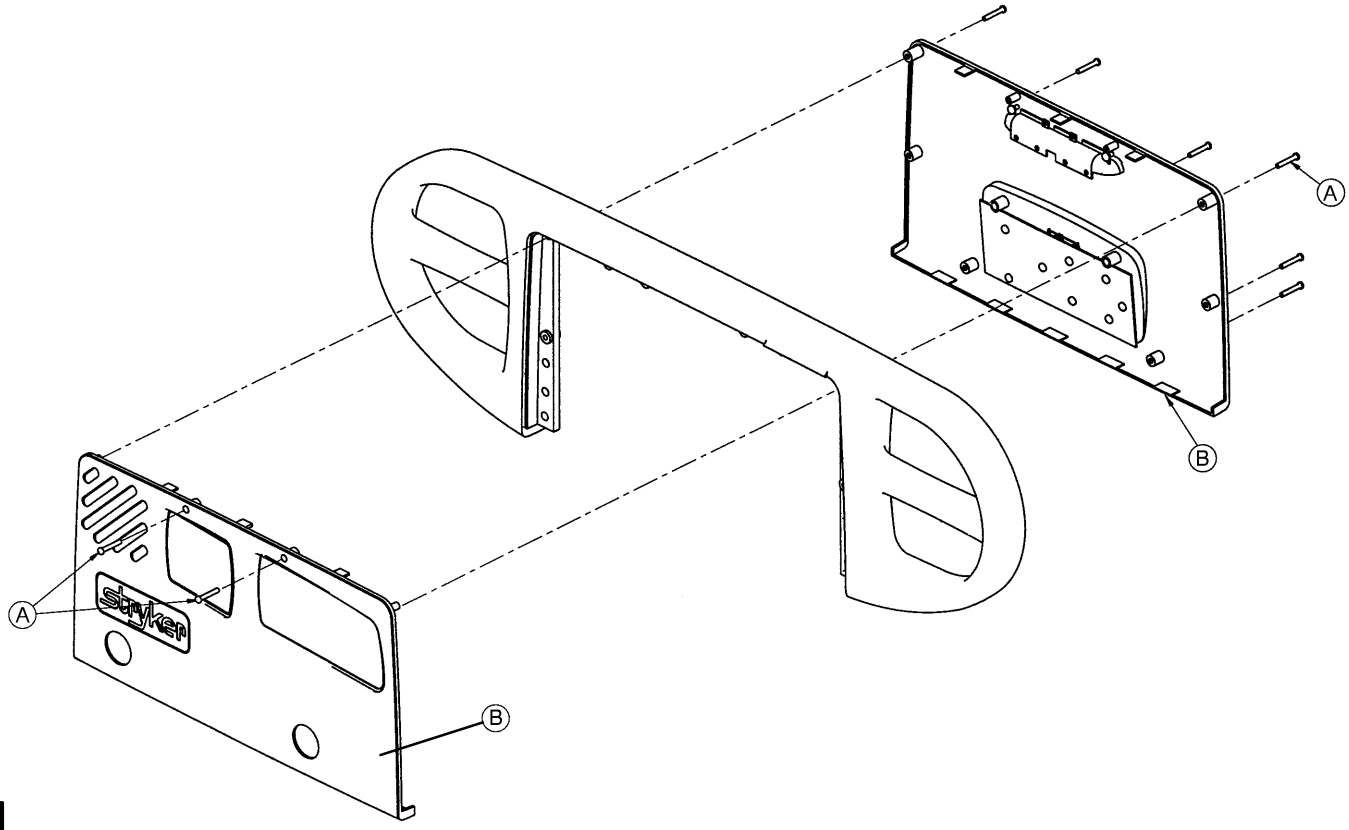
Head and Foot Molded Siderail Replacement 7–3

Head End Siderail Cable Replacement 7–4, 7–5

Siderail Cover Removal

Required Tools:

#2 Phillips Screwdriver



Head End Siderail Cover Removal Procedure:

1. Unplug the bed power cord from the wall receptacle.
2. Using a #2 Phillips screwdriver, remove the 8 Phillips screws (A) holding the covers (B) to the siderail.

⚠ CAUTION

There are two cables connecting the head end siderail outside covers to the head end siderails. Be careful not to pull on them when removing the cover or damage could occur.

3. Disconnect the cables from the siderail. Note the proper location for the cables.
4. Reverse the above steps to reattach the cover.

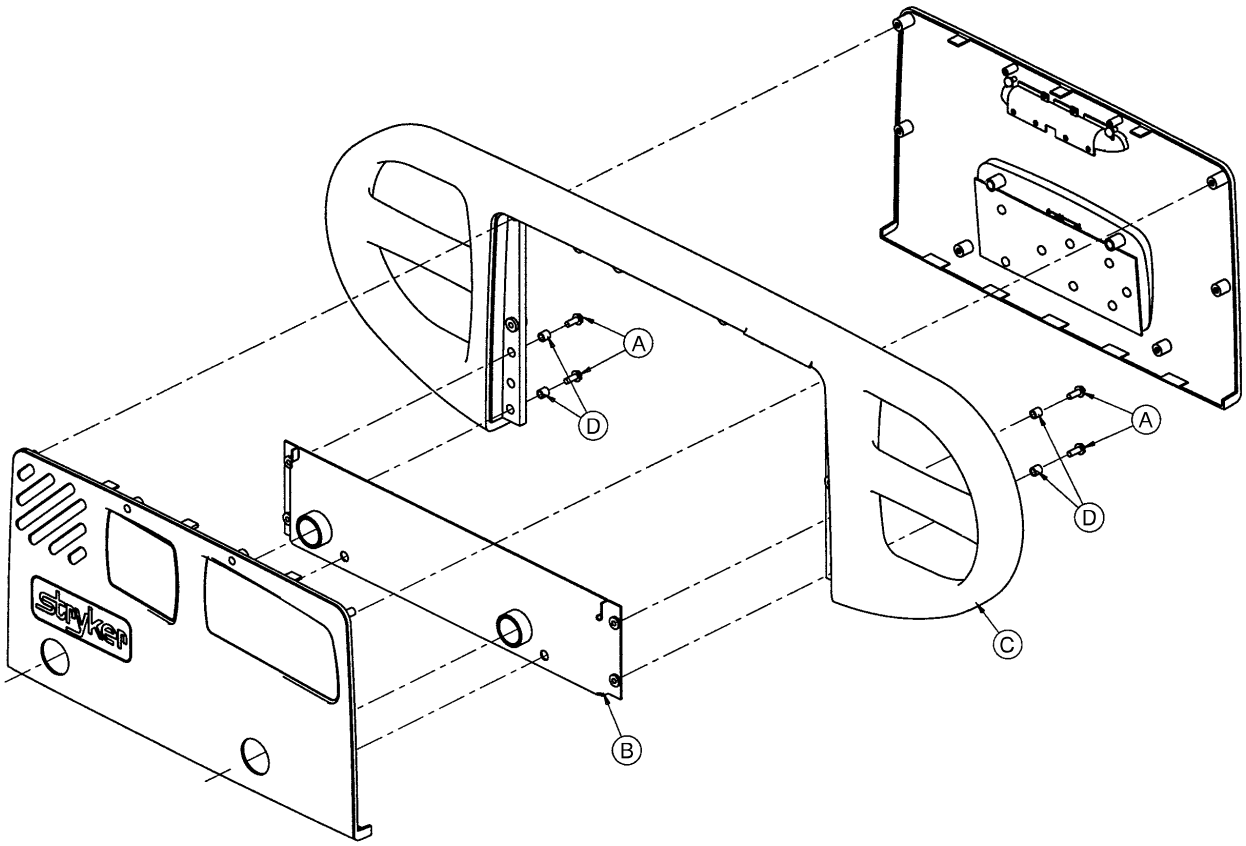
⚠ CAUTION

Do not snag or pinch the cables when reinstalling the head end siderail covers or damage could occur.

Molded Siderail Replacement

Required Tools:

#2 Phillips Screwdriver 3/8” Nut Driver



Procedure:

1. Unplug the bed power cord from the wall receptacle.
2. Remove the siderail covers (see page 7–2).
3. Using a 3/8” nut driver, remove the four screws (A) holding the molded rail (C) to the siderail support assembly (B).

NOTE

Note the location of the spacers (D) for re–assembly purposes.

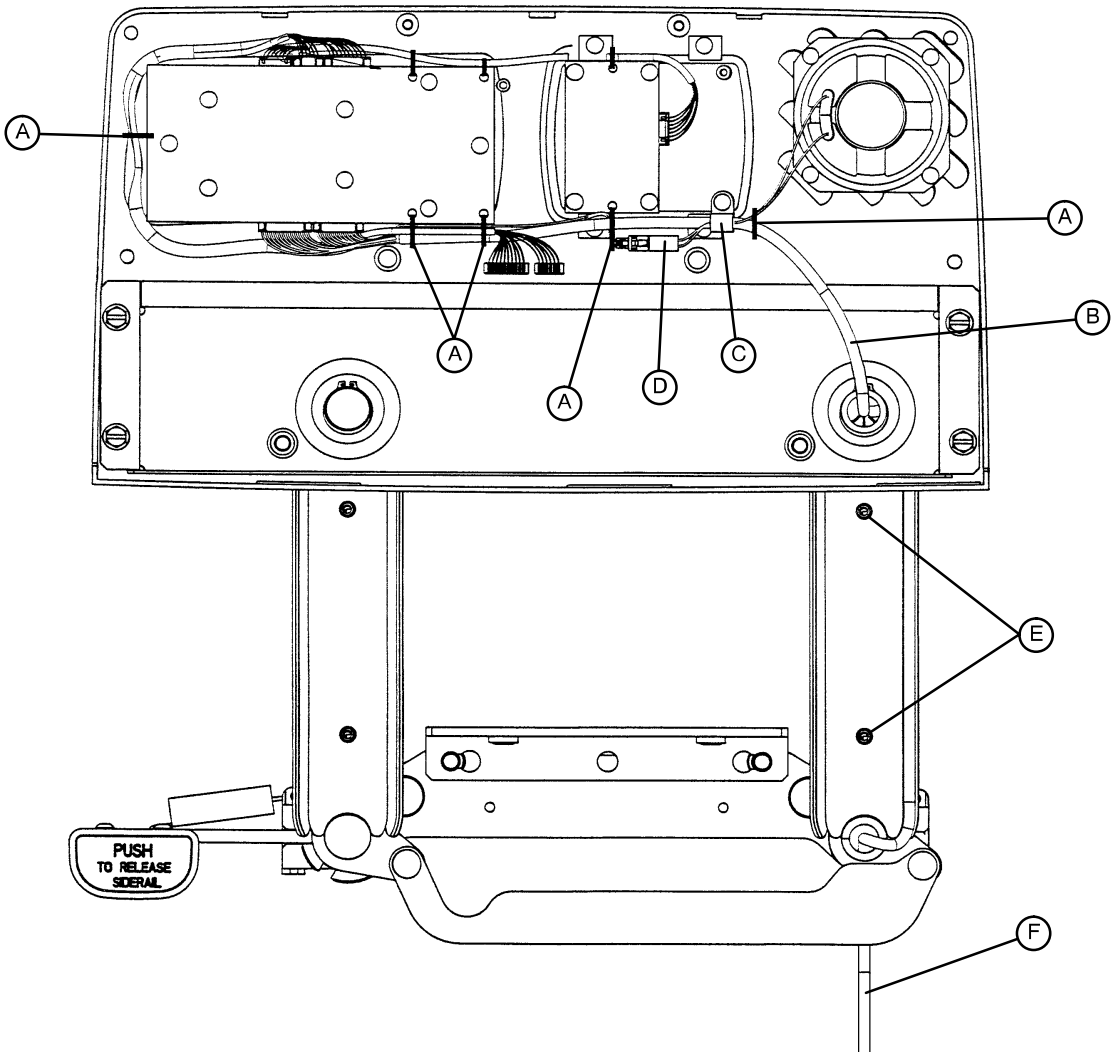
4. Pull up on the molded rail (C) to remove it from the siderail assembly.
5. Reverse the above steps to install the new molded rail.

Head End Siderail Cable Replacement

Required Tools:

#2 Phillips Screwdriver

Side Cutters



Procedure:

1. Run the head section fully up.
2. Unplug the bed power cord from the wall receptacle.
3. Remove the outside siderail cover (see page 7–2).
4. Put the siderail in the down position.
5. Using a #2 Phillips screwdriver, remove the two screws (E) holding the rear siderail pivot arm cover to the pivot arm. Remove the arm cover to expose the siderail cables.

Head End Siderail Cable Replacement (Continued)

6. Using side cutters, clip the cable ties (A) holding the cables together.
7. Using a #2 Phillips screwdriver, remove the cable clamp (C) from the siderail.
8. Disconnect cable (B) from the circuit board and cable (D) from the speaker.

NOTE

The speaker and nurse call are optional equipment and may not be present as shown in the illustration.

9. Pull the cables through the siderail (toward the center of the bed).
10. Unplug the cable assembly (F) underneath the head section.
11. Reverse the above steps to install the new cable.

⚠ CAUTION

Be sure to position the cables on both sides of the pivot arm, as shown in the illustration on page 7–4, before reattaching the pivot arm cover. If the cables are not routed correctly, the arm cover will not fit properly and damage could occur to the cables.

Notes

GENERAL INFORMATION

This section contains tool lists and step–by–step procedures to assist with the maintenance and servicing of the foot board portion of your equipment.

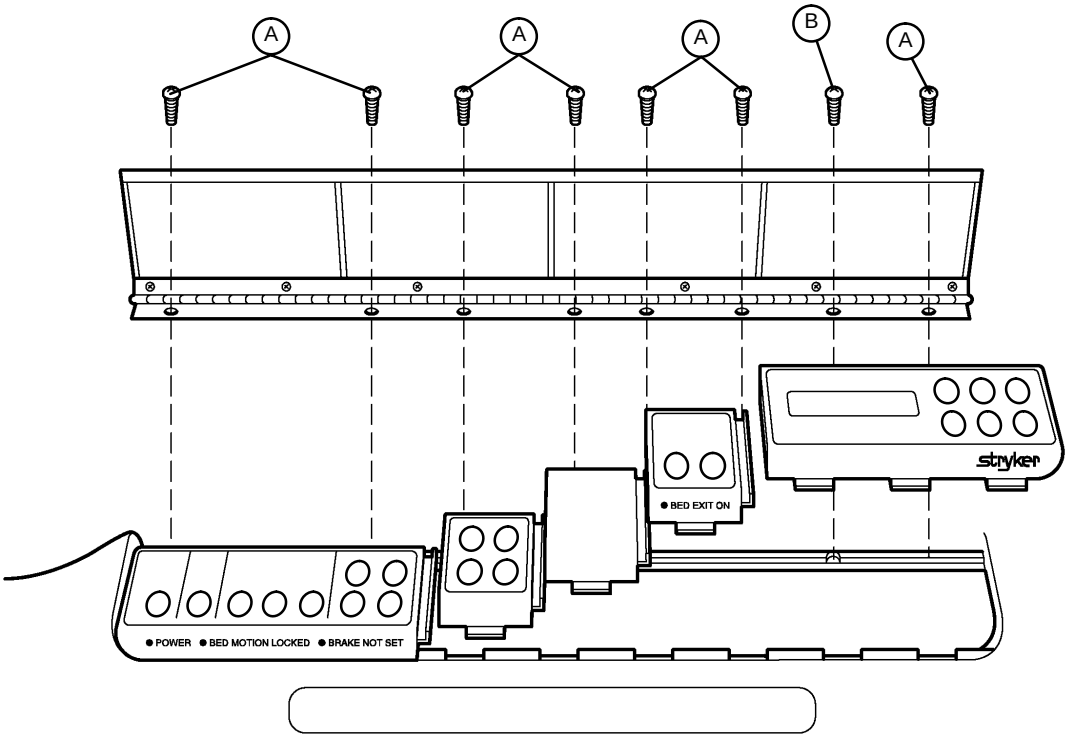
FOOT BOARD MAINTENANCE CONTENTS

Foot Board Hinge Removal 8–2

Foot Board Module Replacement 8–3

Foot Board Interface Plug Replacement 8–4

Foot Board Hinge Removal



Required Tools:

#2 Phillips Screwdriver

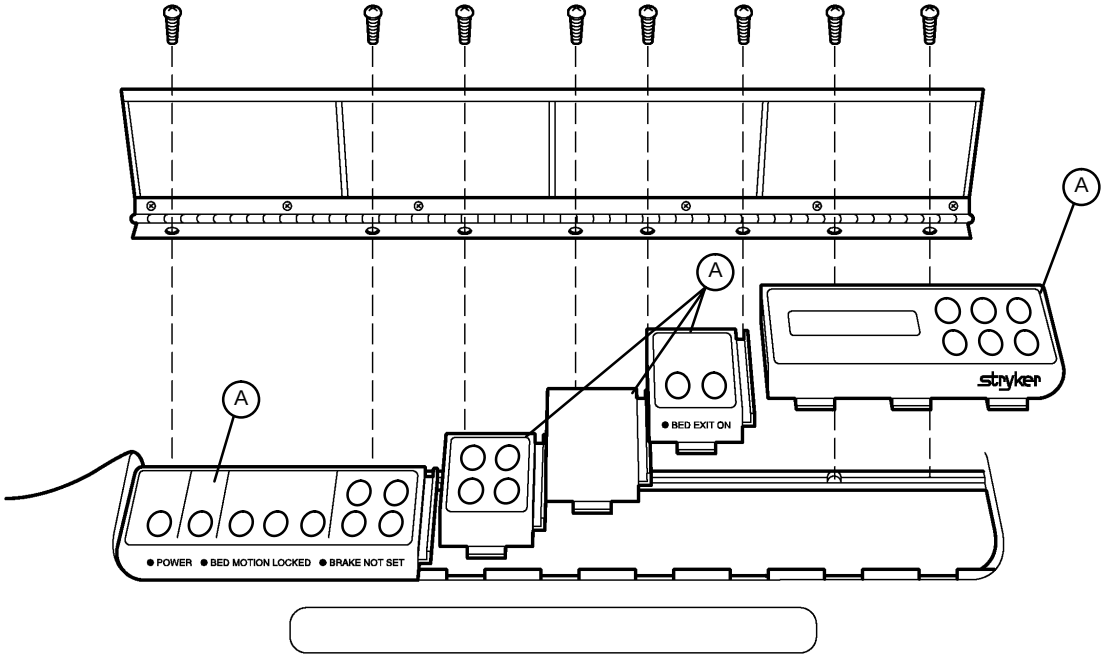
Procedure:

1. Using a #2 Phillips screwdriver, remove the screws (A & B) holding the door and hinge assembly to the foot board.
2. If replacing the hinge only, use a Phillips screwdriver to remove the screws holding the hinge to the door.
3. Reverse the above steps to attach the replacement door and/or hinge.

NOTE

Screw (B) is a machine screw and must be reinstalled in the proper hole.

Foot Board Module Replacement



Required Tools:

#2 Phillips Screwdriver

Procedure:

1. Unplug the bed power cord from the wall socket. Remove the foot board hinge (see page 8–2).

NOTE

Regardless of which module is being replaced, the farthest module to the right must be removed first.

2. Pull the module out of the foot board and disconnect the cable from the module (A).
3. Reverse the above steps to install the new module.

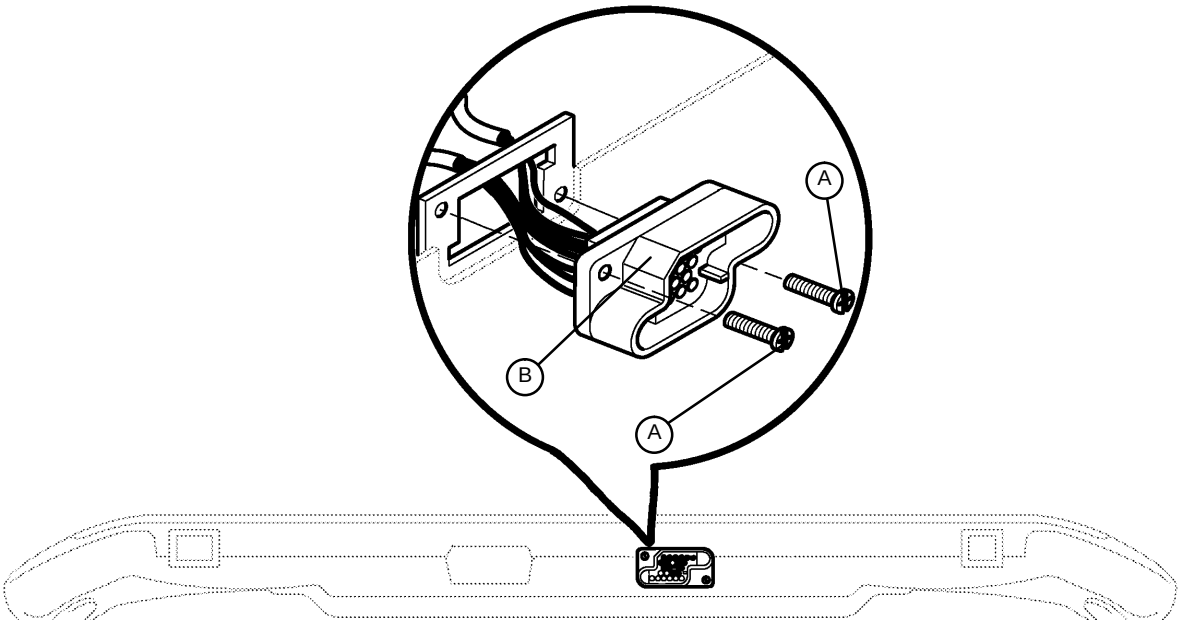
⚠ **CAUTION**

The modules must be overlapped as shown in the illustration (right over left) when they are installed to prevent fluids from entering the board cavity and causing damage.

Foot Board Interface Plug Replacement

Required Tools:

#2 Phillips Screwdriver



BOTTOM VIEW OF FOOT BOARD

Procedure:

1. Unplug the bed power cord from the wall socket.
2. Remove the foot board from the bed to access the bottom of the board.
3. Properly ground yourself (see page 4–13 for static discharge precautions).
4. Remove the foot board door (see page 8–2).
5. Using a #2 Phillips screwdriver, remove the two screws (A) holding the plug to the foot board.
6. Disconnect the interface cable from the foot board module cable. Note proper placement of the cable so it will be reconnected properly.
7. Reverse the above steps to install the new interface plug.

⚠ CAUTION

Be sure to install the new plug with the flat edge (B) at the top left, as shown in the illustration, or the foot board interface plug will not mate properly with the bed and damage to the plug or foot board could result.

ELECTRICAL COMPONENTS

AC CROSSOVER BOARD	2040–31–900
FOOT BOARD KEYBOARD (S/R LIGHTS, LOCKOUTS, ETC.)	3001–500–930
FOOT BOARD SCALE DISPLAY	3001–507–900
FOOT BOARD SCALE KEYBOARD	3001–507–910
FOOT BOARD BED EXIT KEYBOARD	3001–508–900
CPU KIT (BED EXIT/SCALE)	2040–700–11
CPU KIT (ZONE BED EXIT/SCALE)	2040–700–12
DISPLAY/CPU BOARD	2040–31–910
INVERTER/CHARGER BOARD	3002–1–910
POWER BOARD	2040–1–900
POWER SUPPLY	59–157
SMART TV CIRCUIT BOARD	3001–330–970

SIDERAIL BOARDS

INSIDE BOARD	3001–400–930
OUTSIDE BOARD	3001–400–910
SMART TV BOARD, RIGHT	5000–400–920
SMART TV BOARD, LEFT	5000–400–930
SPEAKER W/CABLE	3000–403–831

OTHER COMPONENTS

ADHESIVE, HEAD & FOOT BOARD “C” BUMPERS	72–2–71
BATTERY TRAY ASSEMBLY	3002–1–15
CAPACITOR, FOWLER & GATCH	59–779
CAPACITOR, FOWLER & GATCH, 230V	59–153
CAPACITOR, LIFT	59–778
CAPACITOR, LIFT, 230V	3221–200–243
CASTER, 6”	3001–200–60
CASTER, STEER, 6”	3001–200–50
COIL CORD, LIFT POWER	3001–200–864
COIL CORD, LIFT SENSOR	3001–200–815
COMMUNICATIONS TESTER	3001–303–165
DRIVE WHEEL MOTOR	3002–1–72
GREASE, SINGLE TUBE	3000–200–700

OTHER COMPONENTS (CONTINUED)

LOAD CELL	3001–307–57
MOTOR COUPLER KIT, LIFT	3000–200–725
MOTOR, FOWLER & GATCH W/CLUTCH	3001–300–560
MOTOR, FOWLER & GATCH W/CLUTCH, 230V	3221–300–705
MOTOR, LIFT (SAME FOR HEAD AND FOOT END)	3000–200–213
MOTOR, LIFT, 230V (SAME FOR HEAD AND FOOT END)	3221–200–213
PAINT, TOUCH–UP, OPAL, BOTTLE W/BRUSH	7000–1–321
PAINT, TOUCH–UP, OPAL, SPRAY CAN	7000–1–318
POTENTIOMETER, CONTROL BAR	2040–31–804
POTENTIOMETER, FOOT END	3001–200–230
POTENTIOMETER, FOWLER	2035–32–803
POTENTIOMETER, HEAD END	3001–200–240
POWER CORD	39–254
RESTRAINT STRAP, 2–PIECE	390–19
SIDERAIL COVER, RIGHT	3000–336–11
SIDERAIL COVER, LEFT	3000–336–12
SIDERAIL COVERS (SET OF FOUR)	2040–130

GENERAL INFORMATION

This section contains assembly drawings and parts lists to assist with the identification of individual components of the equipment and accessories.

In the parts lists, the words “right” and “left” refer to the right and left sides of a patient lying face up on the bed.

ASSEMBLY DRAWINGS AND PARTS LISTS CONTENTS

Base Assembly . . . . . 10–3 – 10–10

Lift Assembly . . . . . 10–11 – 10–14

Isolation Plate Assembly 10–15

Brake Crank Assembly 10–16

Brake Bar Assembly 10–17

Brake Shaft Assembly 10–18

6” Caster Assembly 10–19

6” Wheel Assembly 10–20

Zoom™ Base Assembly . . . . . 10–21 – 10–28

Drive Wheel Lift Lever Assembly 10–29

Bottom Cover Assembly 10–30

Zoom Drive Train Assembly 10–31

Battery Tray Assembly 10–32

Zoom Base Power Assembly 10–33

Litter Assembly . . . . . 10–35 – 10–46

Actuator Box Cover Assembly 10–47

Fowler Brake Kit Assembly 10–48

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Head End Siderail Latch Assembly 10–65, 10–66

Head End Siderail Bypass Detent Clip Assembly 10–67

Head End Siderail Outer Panel Assembly 10–68

Head End Siderail Inner Panel Assembly 10–69

Head End Siderail Smart TV Module Assembly 10–70, 10–71

ASSEMBLY DRAWINGS AND PARTS LISTS CONTENTS (CONTINUED)

Foot End Siderail Assembly . . . . . 10–72 – 10–75
Foot End Release Lever Assembly 10–76, 10–77
Head Board Assembly 10–78
Foot Board Assembly . . . . . 10–79 – 10–85
Foot Board Main Module Assembly 10–86
Foot Board CPR Drop/Cardiac Chair Module Assembly 10–87
Foot Board Bed Exit Module Assembly 10–88, 10–89
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Removable I.V. Pole Assembly 10–92
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I.V. Pole Latch Assembly 10–97
Fowler X–Ray Cassette Holder Assembly 10–98
Siderail Transducer Mount Assembly 10–99
I.V. Pole Transducer Mount Assembly 10–100
Defibrillator Tray Assembly 10–101
Pleur–Evac Rack with Defibrillator Tray Assembly 10–102, 10–103
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Siderail Pleur–Evac Rack Assembly 10–105
Foot End Pump Rack Assembly 10–106
Upright Oxygen Bottle Holder Assembly 10–107
Optional Bed Extender Pad 10–108
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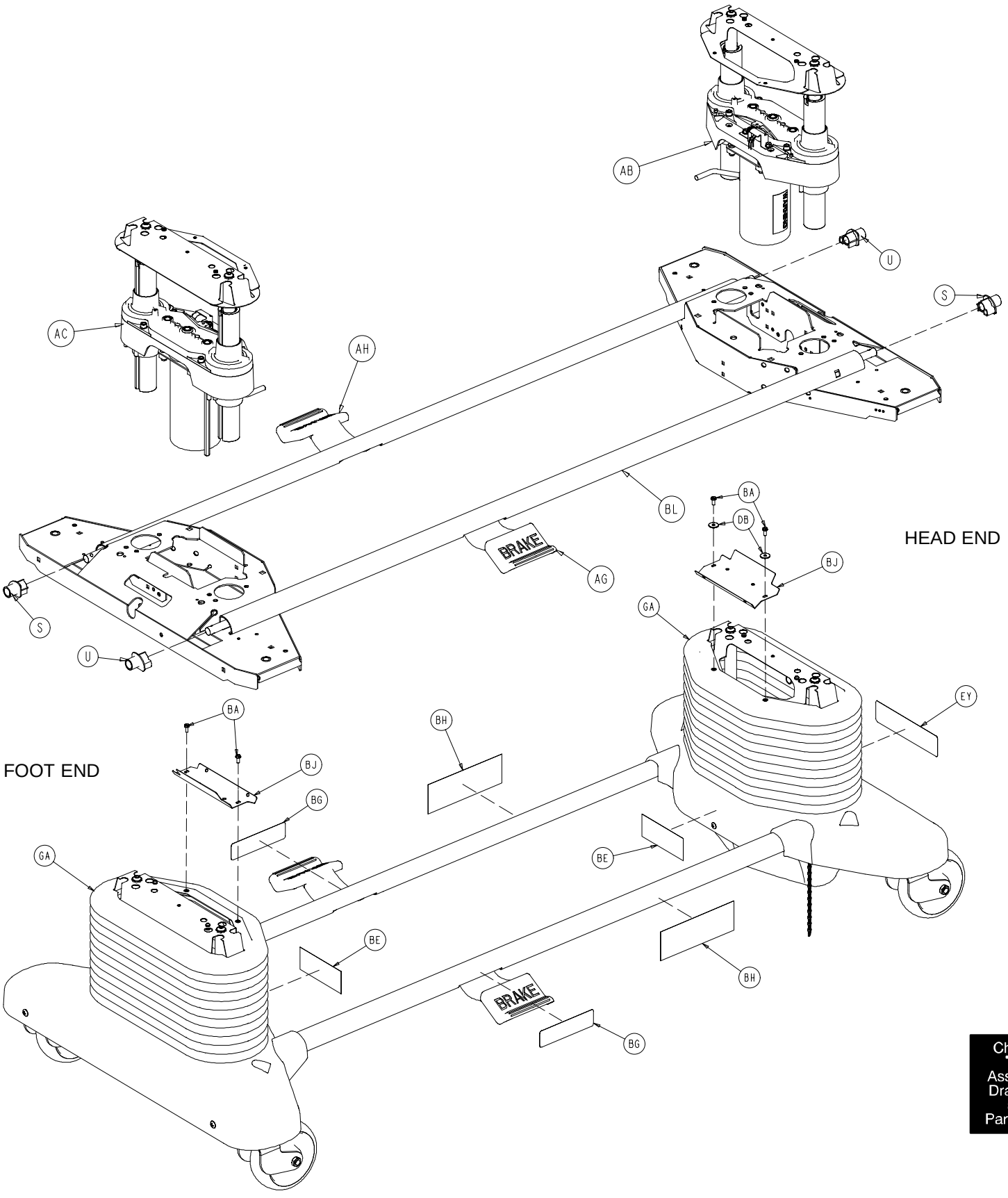
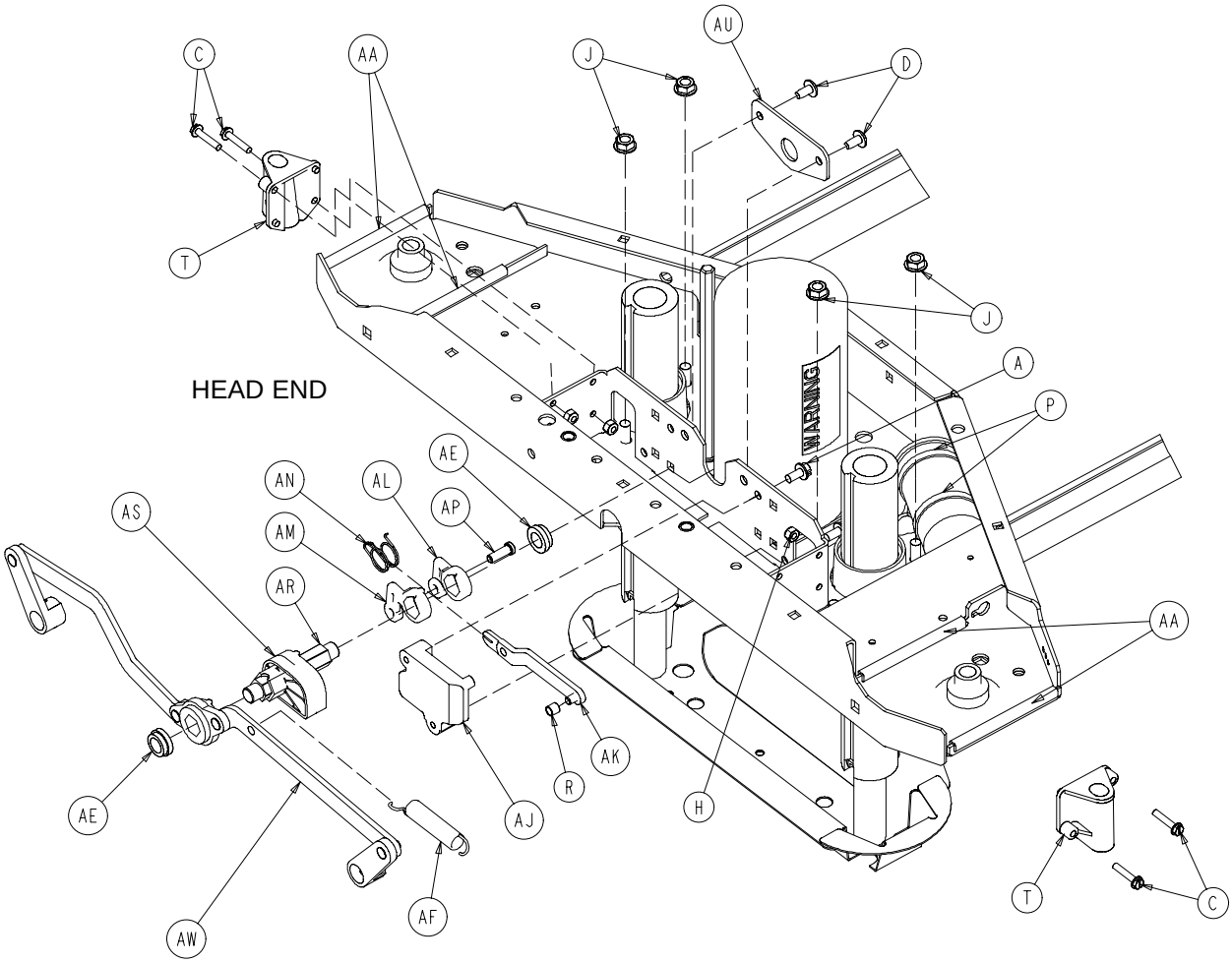
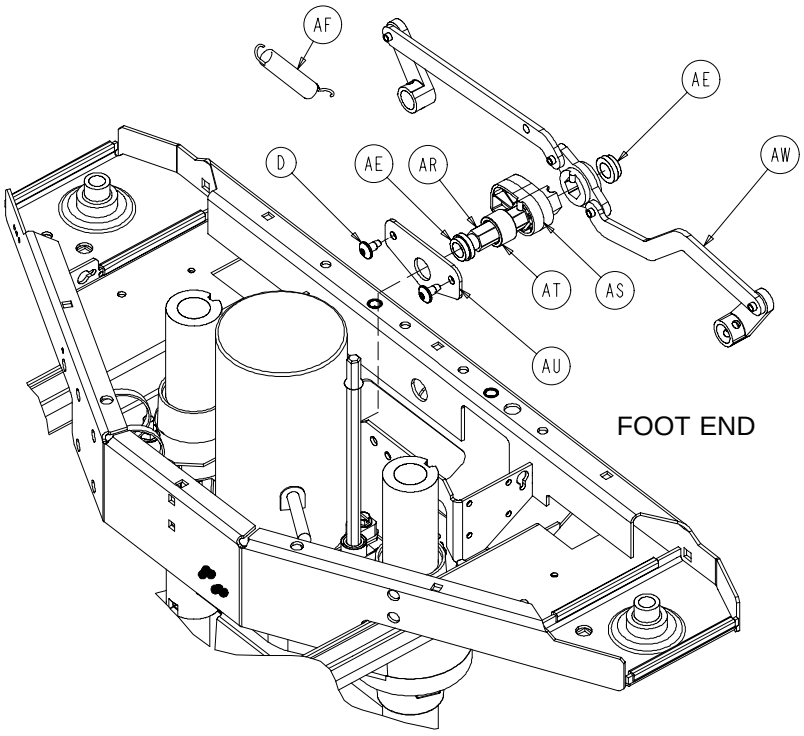
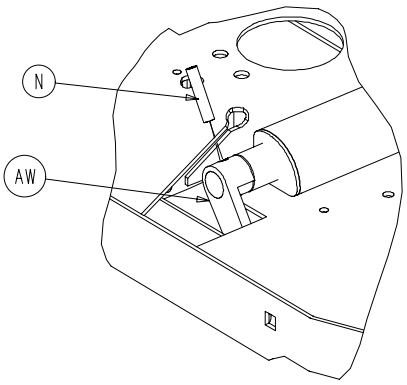
Base Assembly and Options



Base Assembly and Options

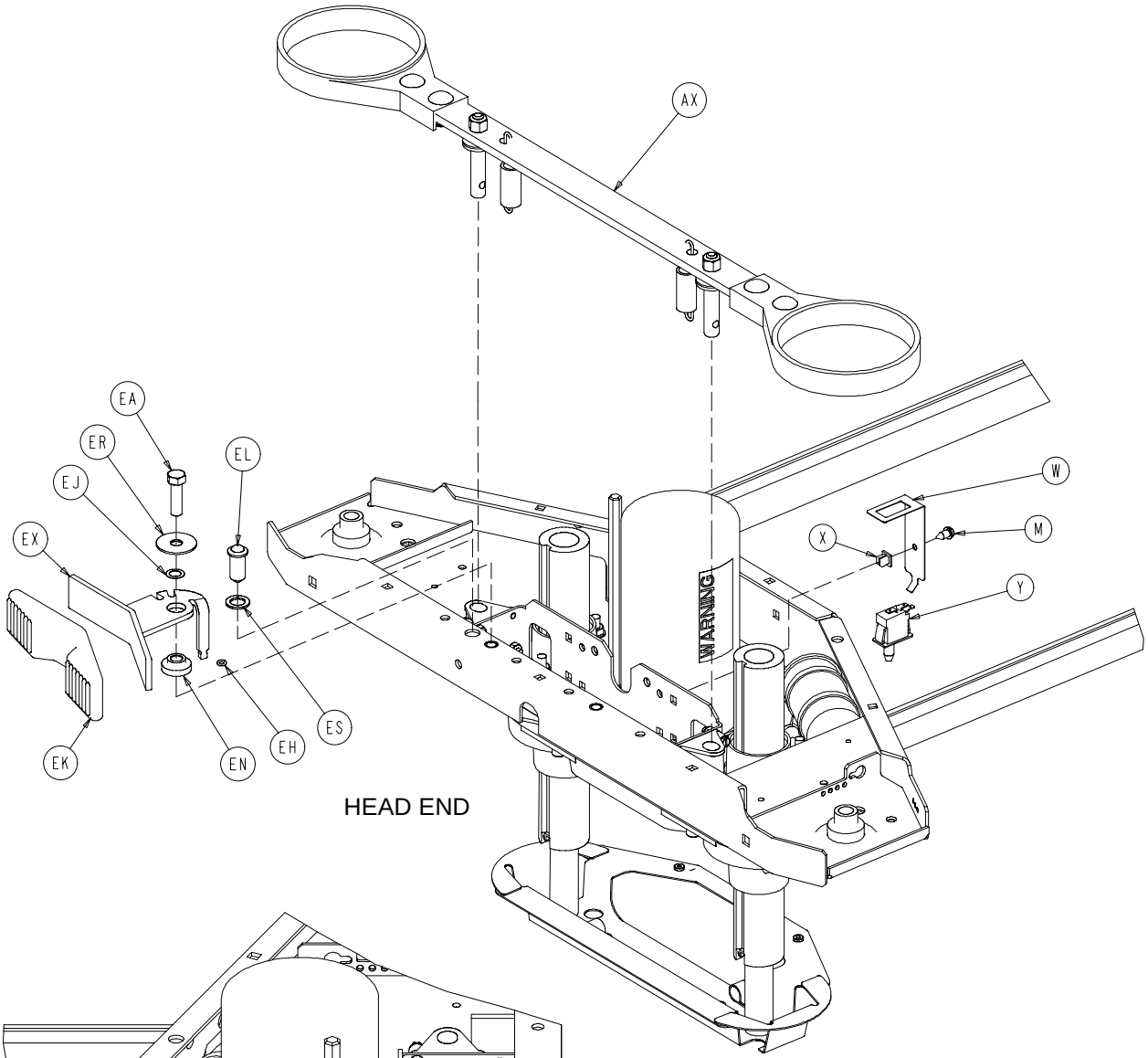




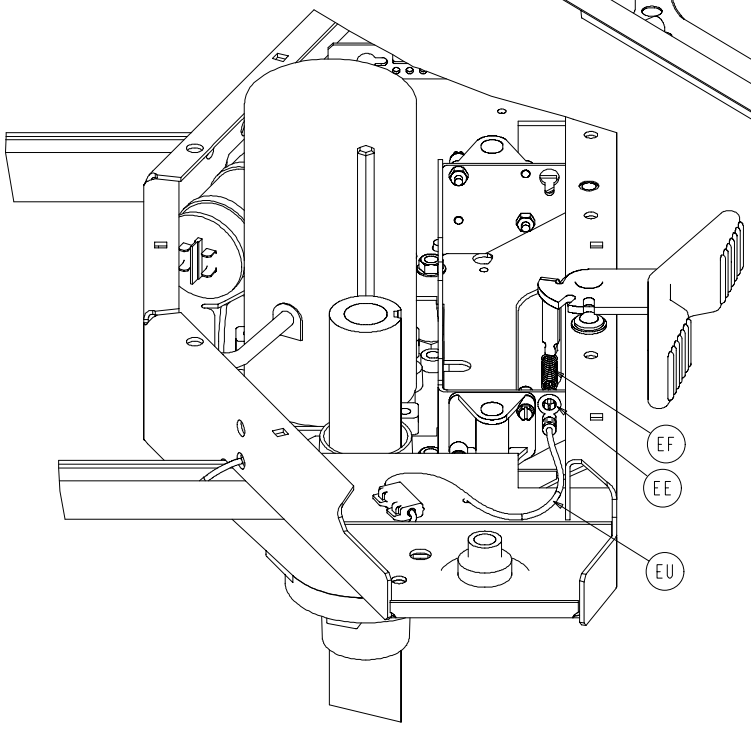


Installation of Roll Pin into Brake Shaft Crank Typical 4 Places

Base Assembly and Options

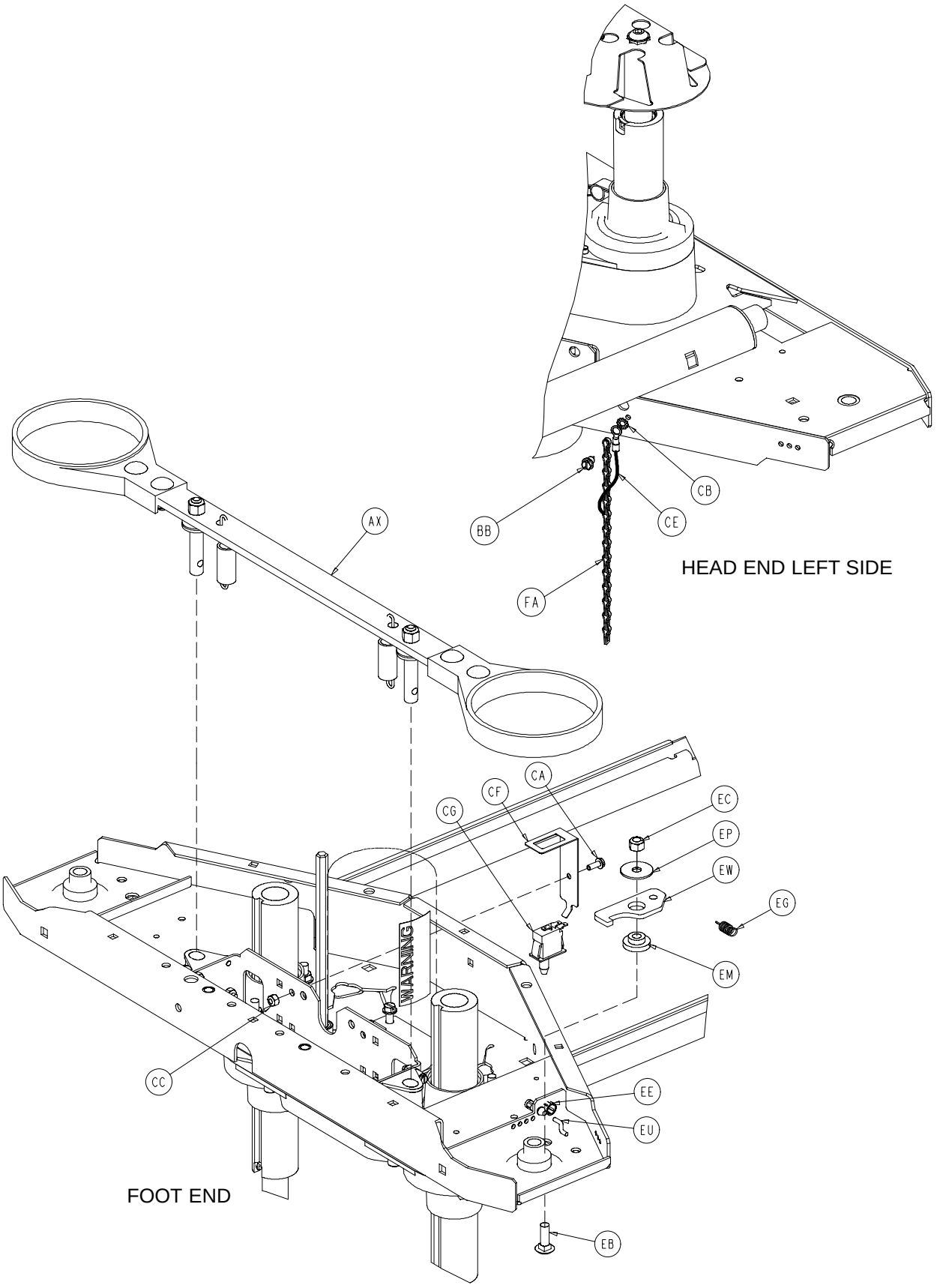


HEAD END

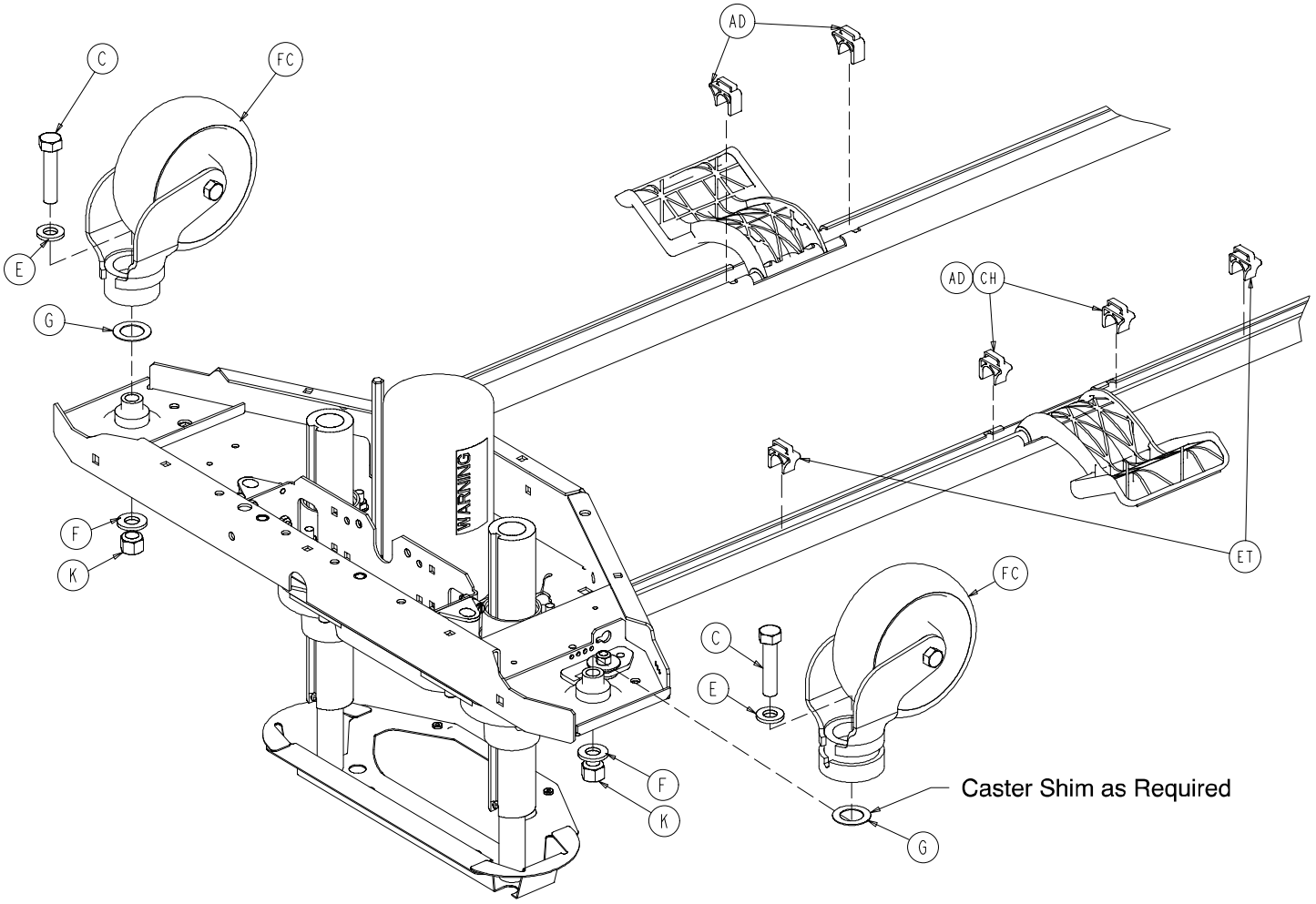


HEAD END

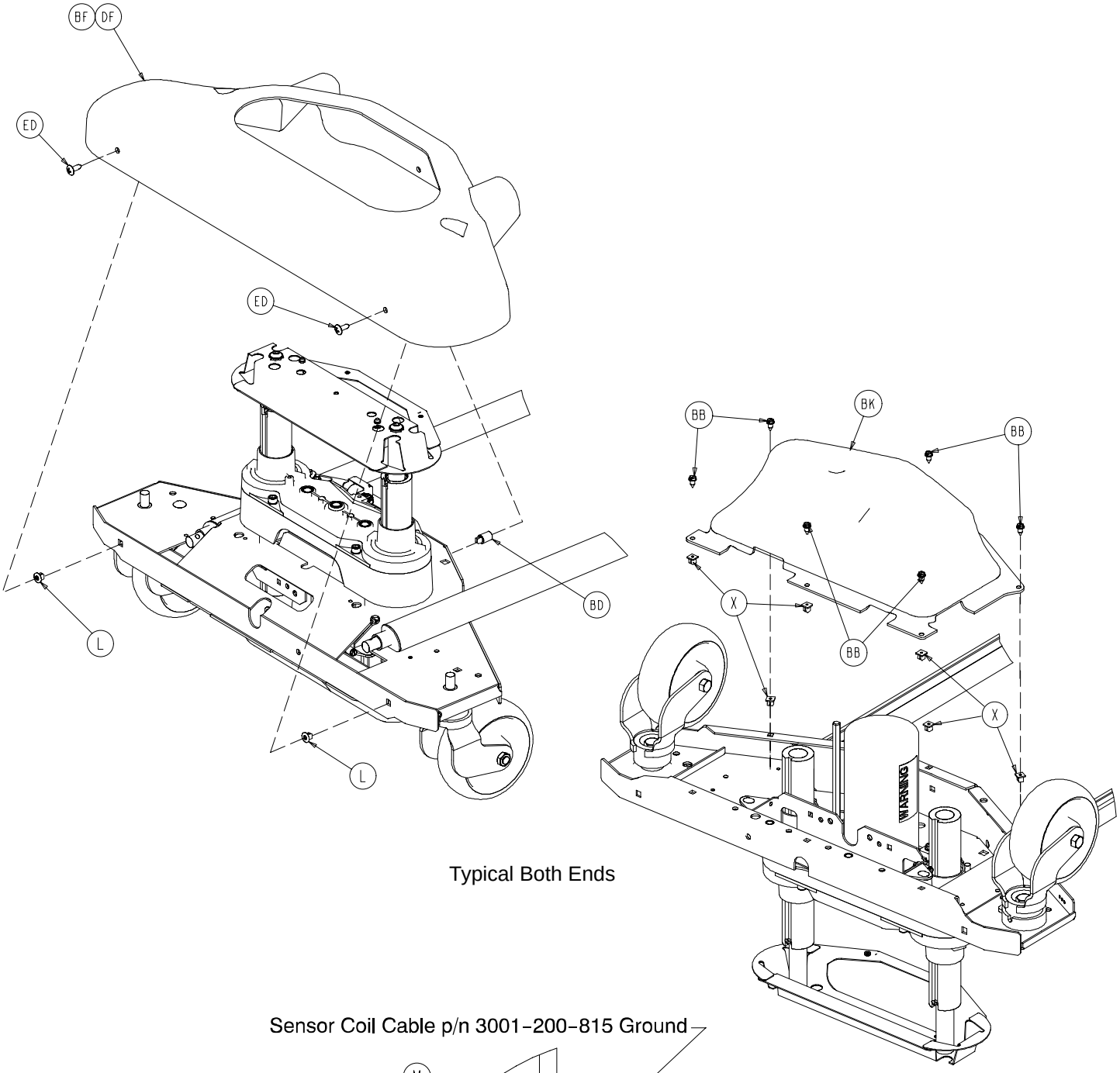
Base Assembly and Options



Base Assembly and Options

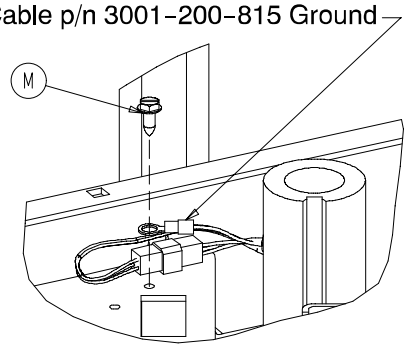


Base Assembly and Options



Typical Both Ends

Sensor Coil Cable p/n 3001-200-815 Ground



Typical Both Ends

Chapter Ten Assembly Drawings and Parts Lists

Base Assembly and Options

Base Assembly Common Components – Part Number 3002–200–3 (Reference Only)

Item	Part No.	Part Name	Qty.
A	3–121	Hex Washer Hd. Screw	2
B	3–122	Hex Washer Hd. Screw	8
C	3–333	Hex Hd. Cap Screw	4
D	7–52	Truss Hd. Torx	4
E	11–310	Washer	4
F	11–333	Flat Washer	4
G	11–417	Washer	4
H	16–2	Nylock Nut	8
J	16–98	Hex Flange Nut	8
K	16–104	Nylock Nut	4
L	18–36	Plastic Clip Nut	4
M	23–25	Hex Washer Hd. Screw	3
N	26–14	Roll Pin	4
P	38–151	Cable Tie	4
R	715–1–333	Release Valve Stop Sleeve	1
S	3000–200–305	Brake Shaft Bushing, Right	2
T	3000–200–328	Brake Guide Bushing	4
U	3000–200–331	Brake Shaft Bushing, Left	2
W	3000–200–343	Brake Switch Bracket	1
X	3000–300–2	Plastic Clip Nut	13
Y	3000–300–58	Plunger Switch	1
Z	3000–300–113	8” Cable Tie	6
AA	3001–200–14	Edge Strip	8
AB	(page 10–11)	Head End Lift Assembly	1
AC	(page 10–11)	Foot End Lift Assembly	1
AD	3001–200–306	Brake Pedal Shaft Bearing	4
AE	3001–200–317	Brake Cam Shaft Bushing	4
AF	3001–200–334	Brake Return Extension Spring	2
AG	(page 10–16)	Brake Shaft Assembly, Left	1
AH	(page 10–16)	Brake Shaft Assembly, Right	1
AJ	3002–200–301	Brake Ratchet Track	1
AK	3002–200–302	Brake Ratchet Link Assembly	1
AL	3002–200–305	Brake Ratchet Crank, Left	1
AM	3002–200–306	Brake Ratchet Crank, Right	1
AN	3002–200–307	Brake Latch Spring	1
AP	3002–200–308	Brake Ratchet Crank Pin	1
AR	3002–200–311	Brake Shaft	2
AS	3002–200–312	Brake Cam	2
AT	3002–200–313	Brake Cam Spacer	1
AU	3002–200–314	Brake Mounting Bracket	2
AW	(page 10–17)	Brake Crank Assembly	2
AX	(page 10–18)	Brake Bar Assembly	2

Base Assembly and Options

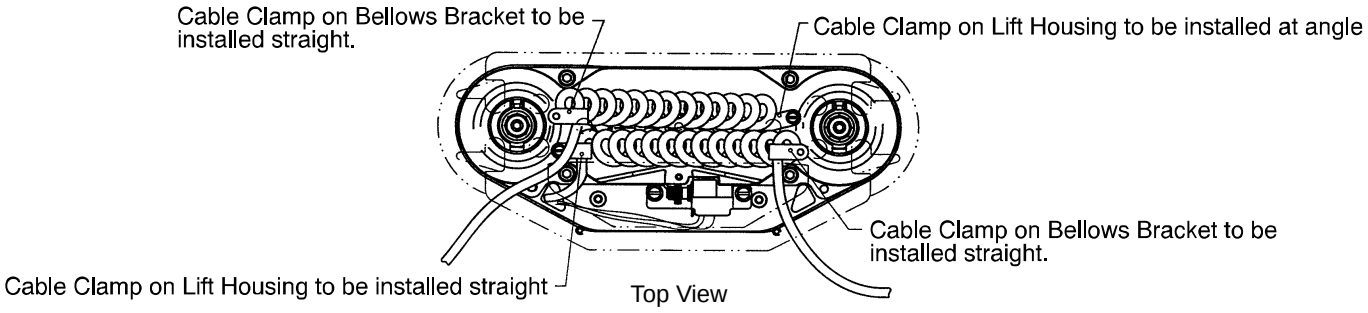
Base Assembly, Zoom ICU Bed – Part Number 2040–244–3 (Reference Only)

Item	Part No.	Part Name	Qty.
AB	(page 10–11)	Head End Lift Assembly	1
AC	(page 10–11)	Foot End Lift Assembly	1
BL	3002–200–102	Base Weldment	1
CA	3–128	Hex Washer Hd. Screw	1
CB	13–18	External Tooth Lock Washer	1
CC	16–3	Nylock Nut	1
CD	715–1–156	Ground Chain	1
CE	2025–31–805	Ground Strap	1
CF	3000–200–343	Brake Switch Bracket	1
CG	3000–300–58	Switch Plunger	1
CH	3001–200–306	Brake Pedal Shaft Bearing	2
GA	2030–000–101	Bellows	2

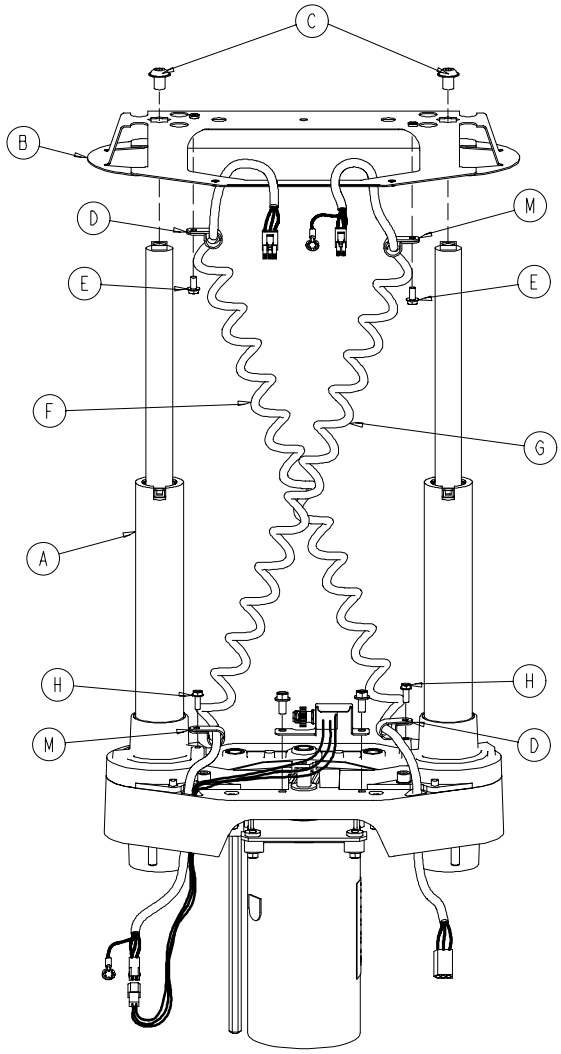
Base Assembly, 6” Casters – Part Number 2040–999–138 (Reference Only)

Item	Part No.	Part Name	Qty.
FC	(page 10–19)	6” Caster Assembly	4

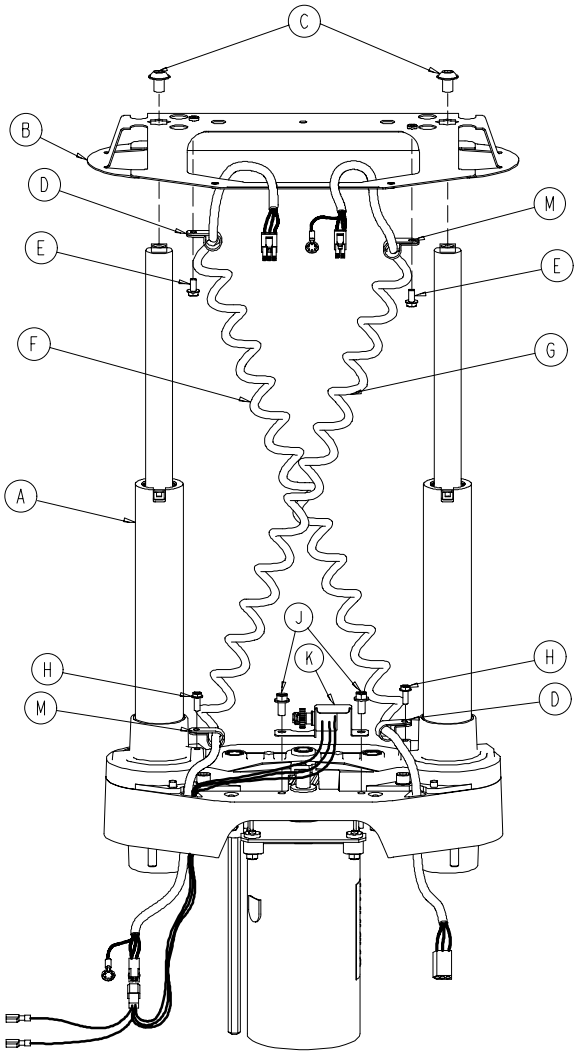
Lift Assembly, Head and Foot End



3001–200–251 (Foot – Standard Height)
2040–243–250 (Foot – Enhanced Height)

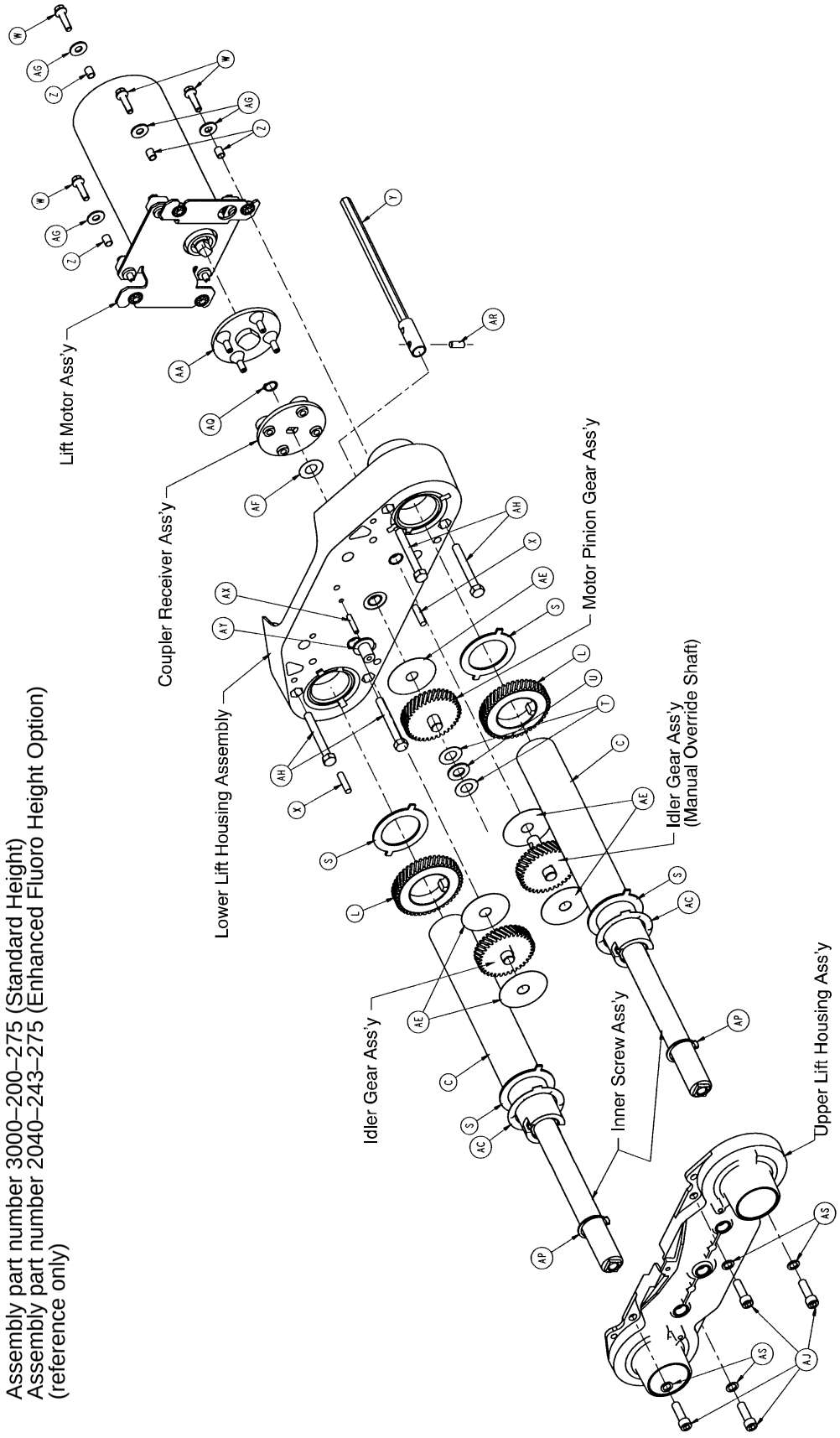


3001–200–201 (Head – Standard Height)
2040–243–200 (Head – Enhanced Height)



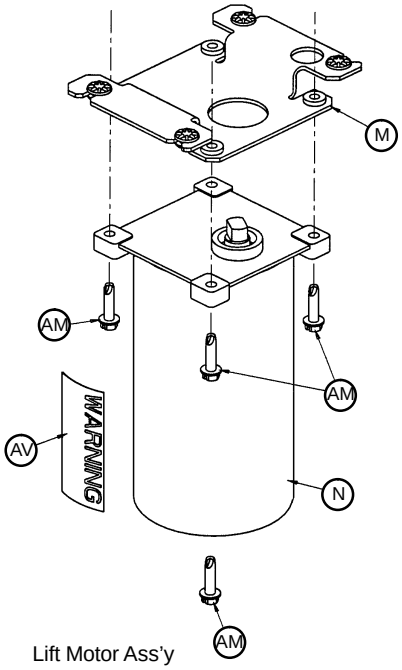
Item	Part No.	Part Name	Qty.	Item	Part No.	Part Name	Qty.
A	(page 10–12)	Common Lift Assembly	1	G	3001–200–815	Sensor Coil Cord	1
B	3000–200–52	Bellows Bracket	1	H	3–128	Hex Washer Hd. Screw	2
C	4–245	Flanged But. Hd. Screw	2	J	3–121	Hex Washer Hd. Screw	2
D	34–22	Cord Clamp	2	K	3001–200–240	Head End Pot. Ass'y	1
E	3–123	Hex Washer Hd. Screw	2		3001–200–230	Foot End Pot. Ass'y	1
F	3001–200–864	Power Coil Cord	1	M	34–381	Cord Clamp	2

Lift Assembly (Common)

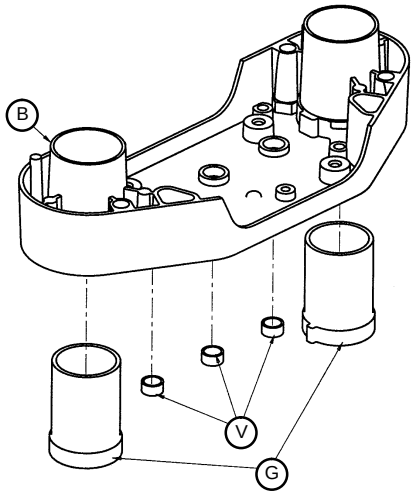


Assembly part number 3000–200–275 (Standard Height)
Assembly part number 2040–243–275 (Enhanced Fluoro Height Option)
(reference only)

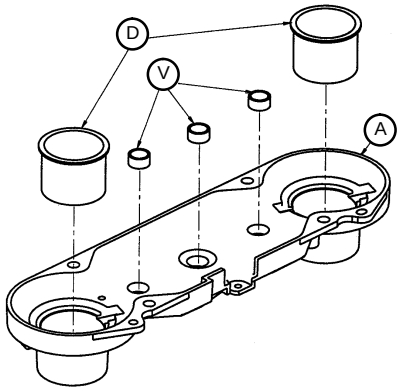
Lift Assembly (Common)



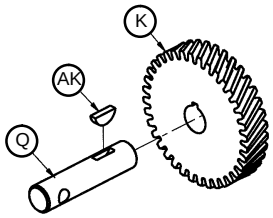
Lift Motor Ass'y



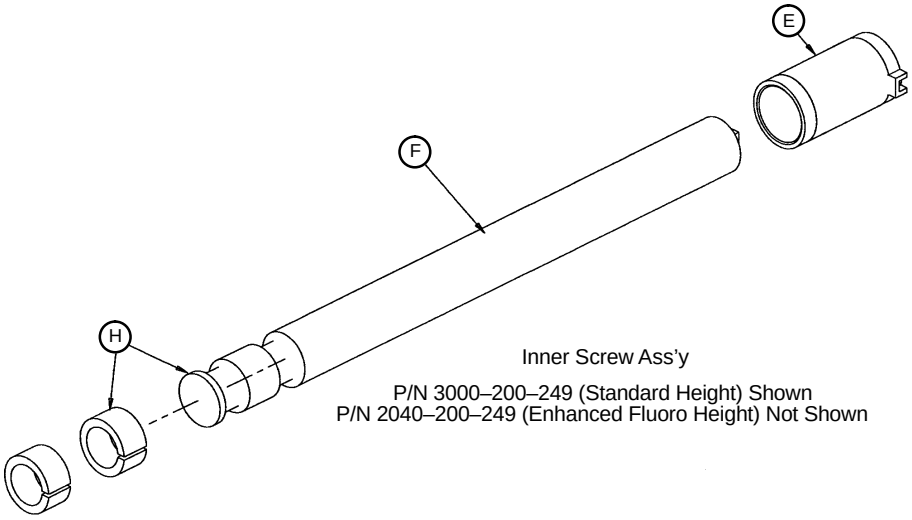
Lower Lift Housing Ass'y



Upper Lift Housing Ass'y

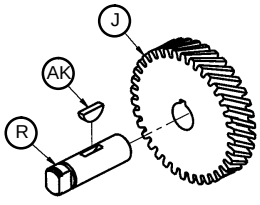


Idler Gear Ass'y
(Manual Override Shaft)

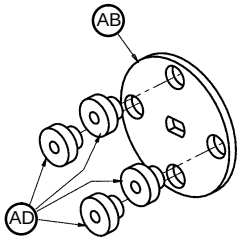


Inner Screw Ass'y

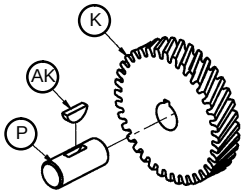
P/N 3000–200–249 (Standard Height) Shown
P/N 2040–200–249 (Enhanced Fluoro Height) Not Shown



Motor Pinion Gear Ass'y



Coupler Receiver Ass'y



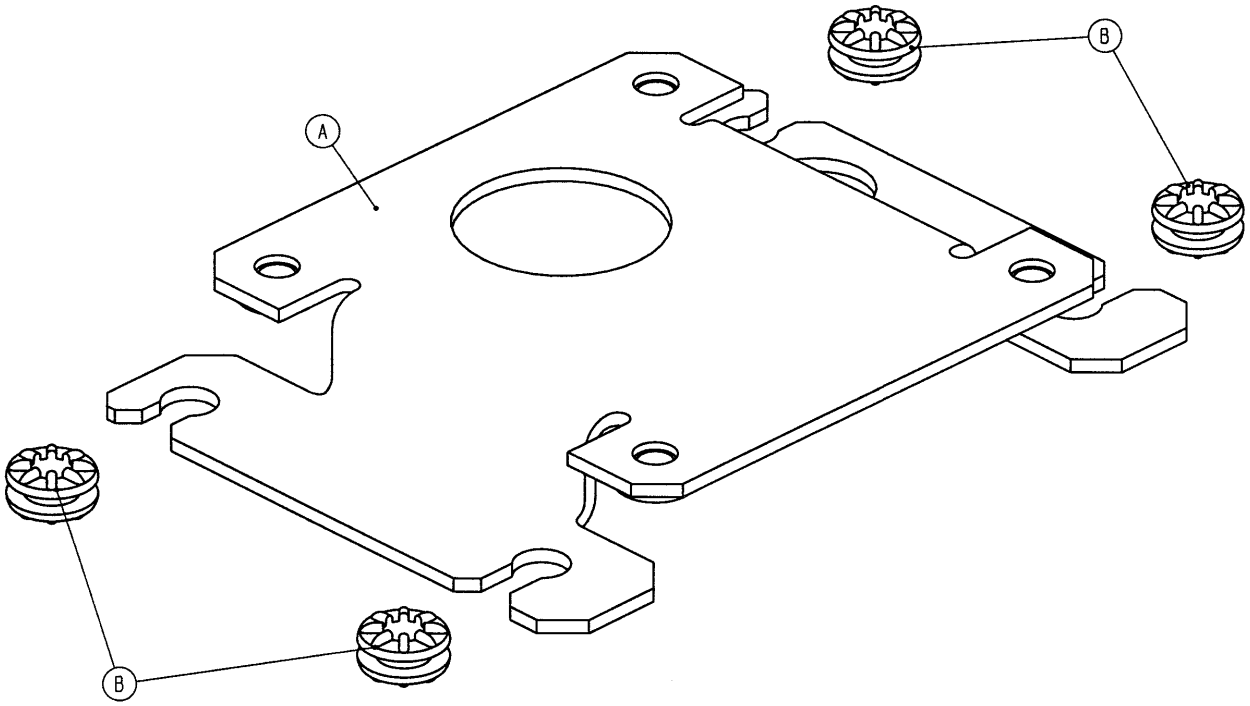
Idler Gear Ass'y

Lift Assembly (Common)

Item	Part No.	Part Name	Qty.
A	3000–200–201	Upper Lift Housing	1
B	3000–200–202	Lower Lift Housing	1
C	3000–200–251	Outer Screw	2
D	3000–200–204	Upper Housing Sleeve	2
E	3000–200–205	Upper Stage Nut	2
F	3000–200–249	Inner Screw, Standard Height	2
	2040–200–249	Inner Screw, Enhanced Height	2
G	3000–200–207	Lower Stage Nut	2
H	3000–200–208	Glide Bushing	4
J	3000–200–209	Motor Pinion Gear	1
K	3000–200–210	Idler Gear	2
L	3000–200–252	Output Gear	2
M	(page 10–15)	Motor Isolation Plate Ass'y	1
N	3000–200–213	Lift Motor	1
	3221–200–213	230V Lift Motor	1
P	3000–200–218	Idler Shaft, Lift	1
Q	3000–200–219	Idler Man. Over. Shaft	1
R	3000–200–220	Input Pinion Shaft	1
S	3000–200–223	Output Gear Thr. Washer	4
T	3000–200–224	Input Gear Thr. Washer	2
U	3000–200–225	Input Pinion Thr. Bearing	1
V	3000–200–226	Pinion Shaft Bushing	6
W	3001–200–228	Mounting Standoff	4
X	26–231	Dowel Pin	2
Y	3001–200–235	Man. Override Shaft Ass'y	1
Z	3001–300–19	Isolation Sleeve	4
AA	3000–200–233	Lift Motor Coupler	1
AB	3000–200–234	Coupler Receiver	1
AC	3000–200–241	Crush Washer	2
AD	3000–300–455	Isolation Bushing	4
AE	3000–200–245	Gear Washer	5
AF	3000–200–246	Nylon Washer	1
AG	11–408	Flat Washer	4
AH	3–82	Hex Hd. Cap Screw	4
AJ	4–213	Soc. Hd. Cap Screw	4
AK	58–44	Woodruff Key	3
AM	3–331	Hex Washer Hd. Screw	4
AP	28–121	Retaining Ring	2
AQ	28–97	Retaining Ring	1
AR	26–178	Roll Pin	1
AS	11–308	Serrated Belleville Washer	4
AV	3000–300–604	Warning Label	1
AX	3000–200–239	Pot. Drive Gear Shaft	1
AY	3000–200–216	Potentiometer Drive Gear	1

3000–200–723 Isolation Plate Assembly

Assembly part number 3001–200–214 (reference only)

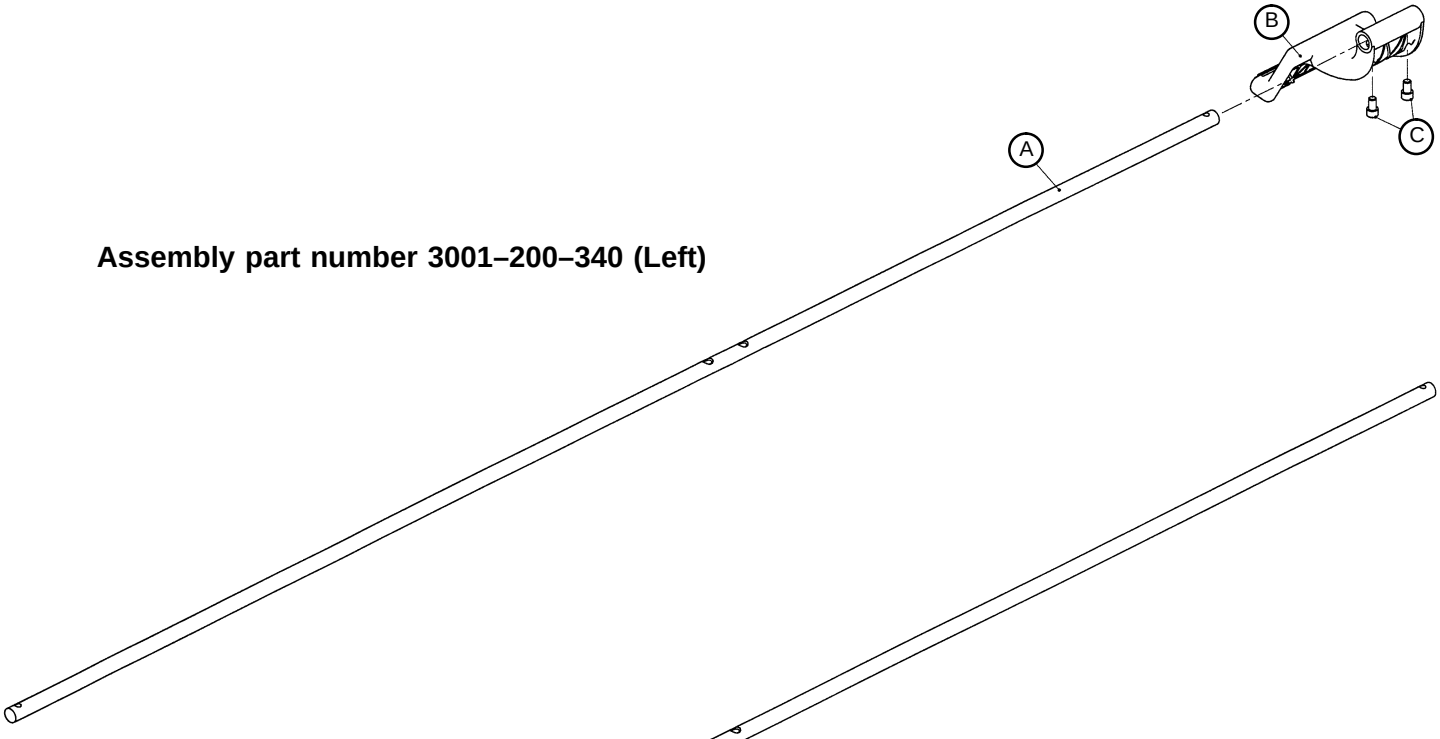


Item	Part No.	Part Name	Qty.
A	3001–200–213	Isolation Plate	1
B	3000–300–442	Grommet	4

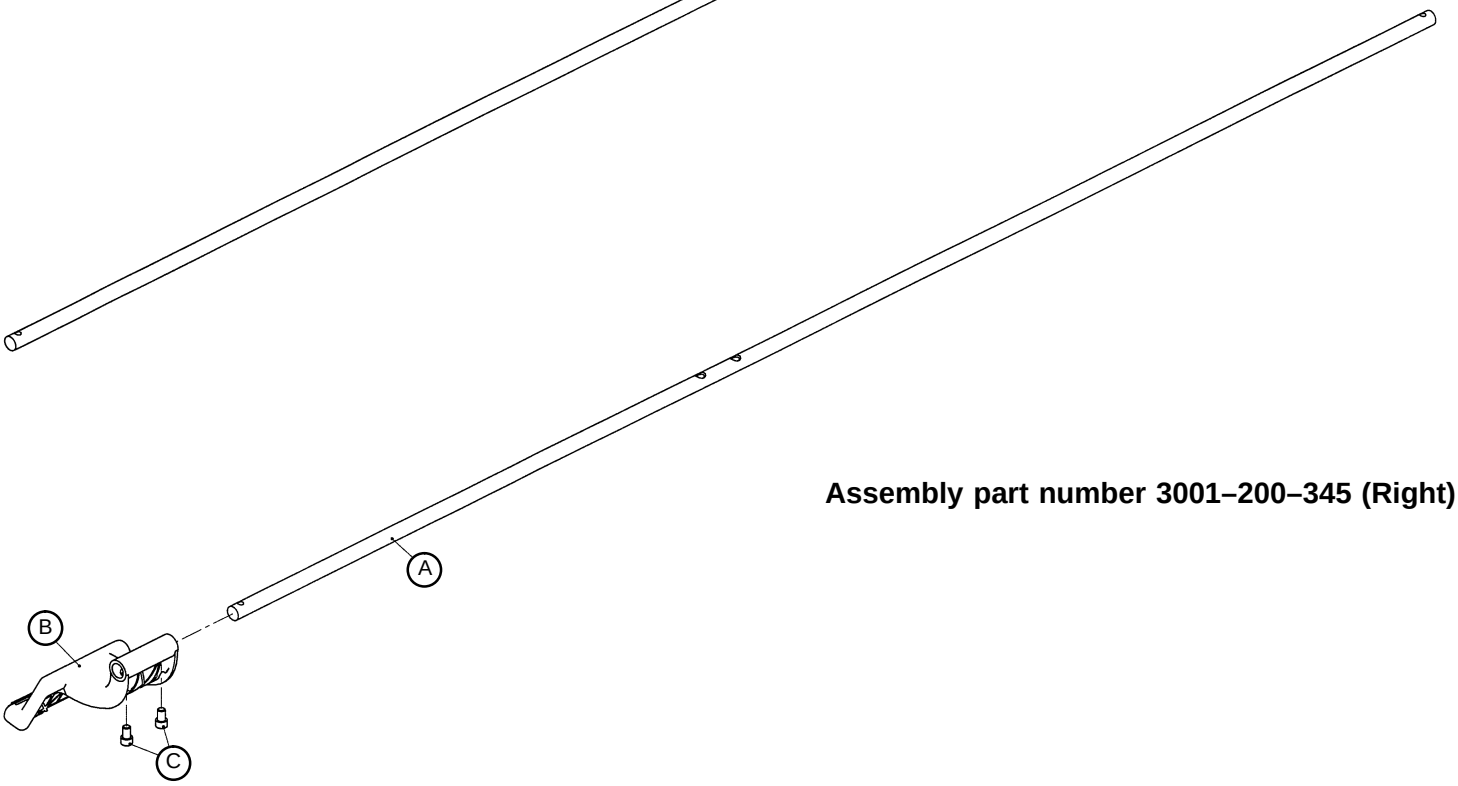
Chapter Ten Assembly Drawings and Parts Lists

Brake Shaft Assembly, Left and Right

Assembly part number 3001–200–340 (Left)



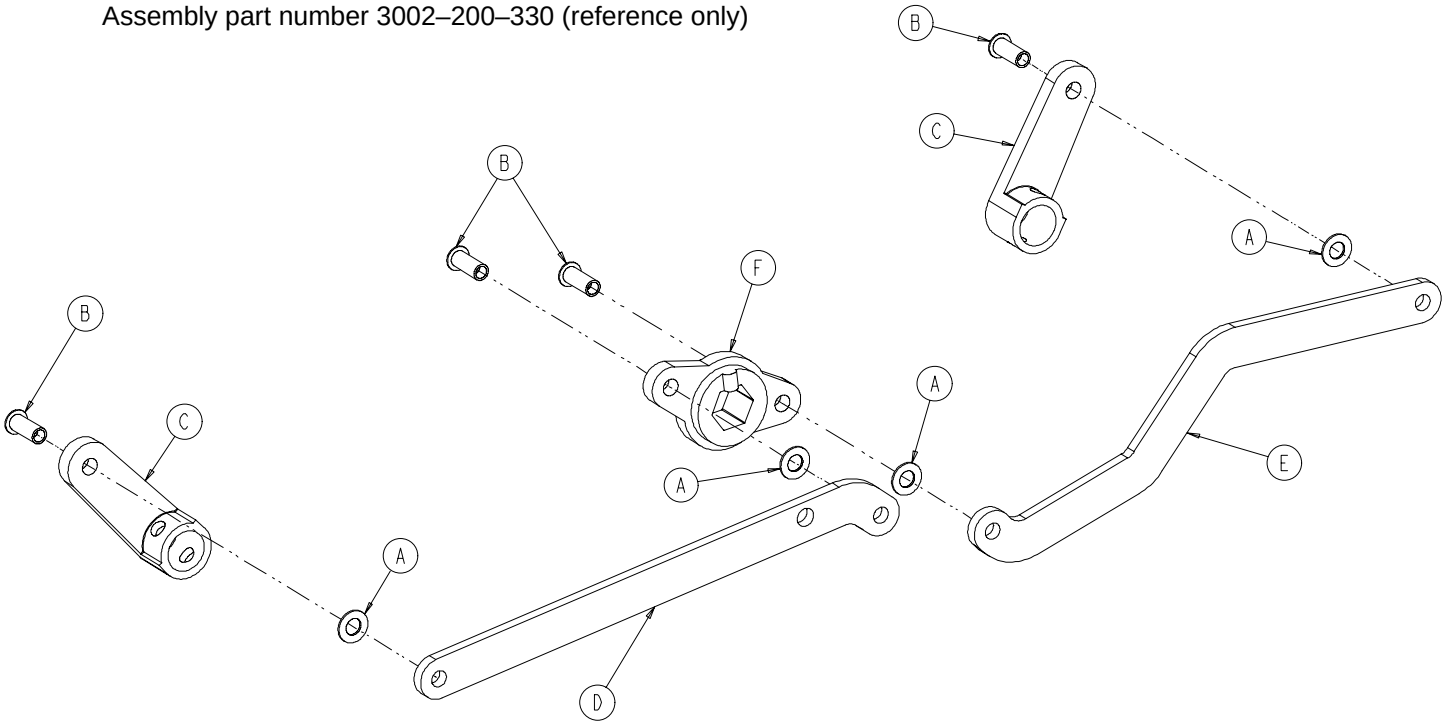
Assembly part number 3001–200–345 (Right)



Item	Part No.	Part Name	Qty.
A	3000–200–314	Brake Shaft	1
B	3001–200–325	Brake Pedal	1
C	4–270	Soc. Hd. Cap Screw	2

Brake Crank Assembly

Assembly part number 3002–200–330 (reference only)

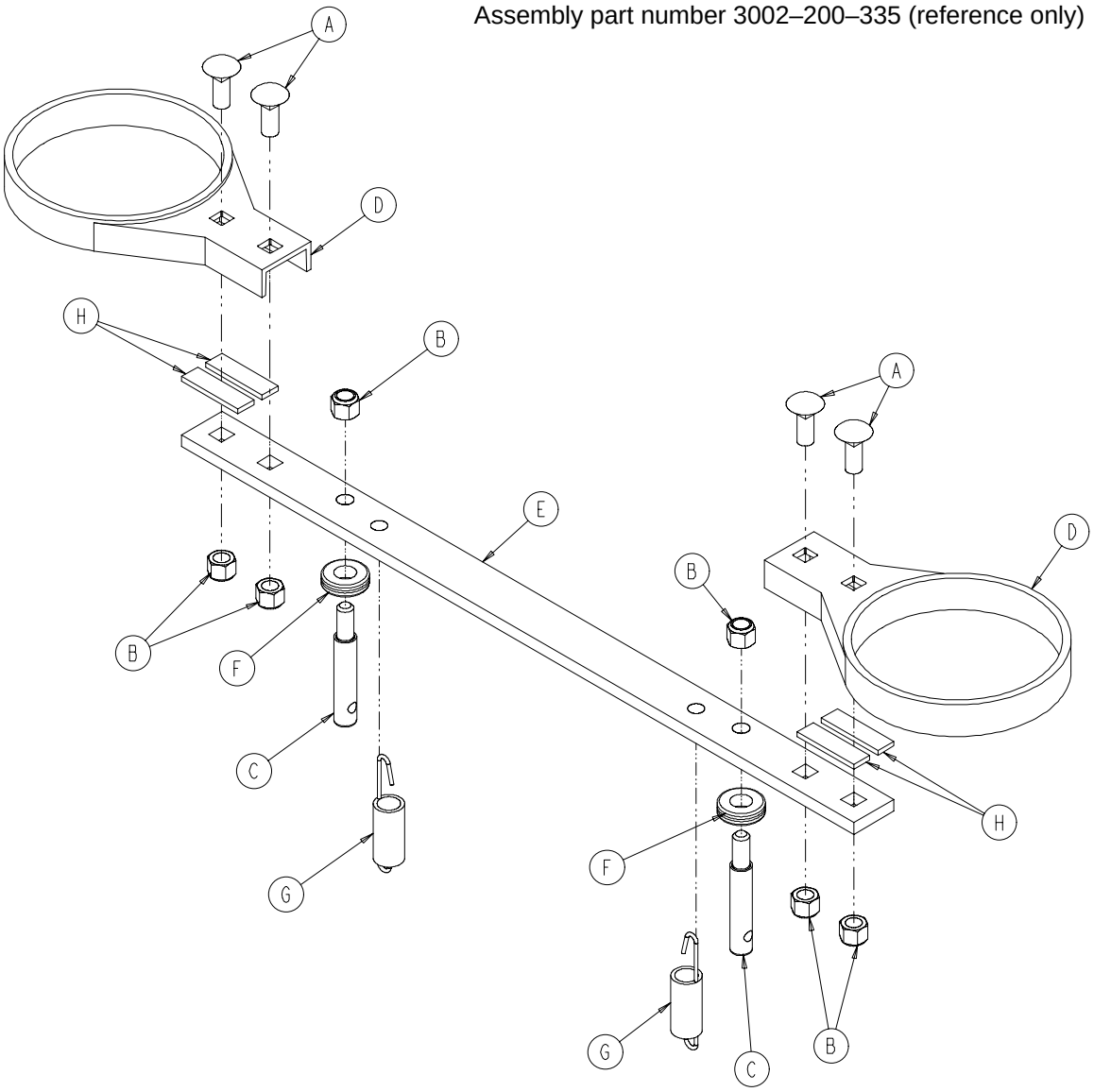


Item	Part No.	Part Name	Qty.
A	14–4	Washer	4
B	25–146	Semi–Tubular Rivet	4
C	3000–200–302	Brake Shaft Crank	2
D	3001–200–311	Brake Link	1
E	3001–200–312	Dog Leg Brake Link	1
F	3002–200–309	Brake Crank	1

Chapter Ten Assembly Drawings and Parts Lists

Brake Bar Assembly

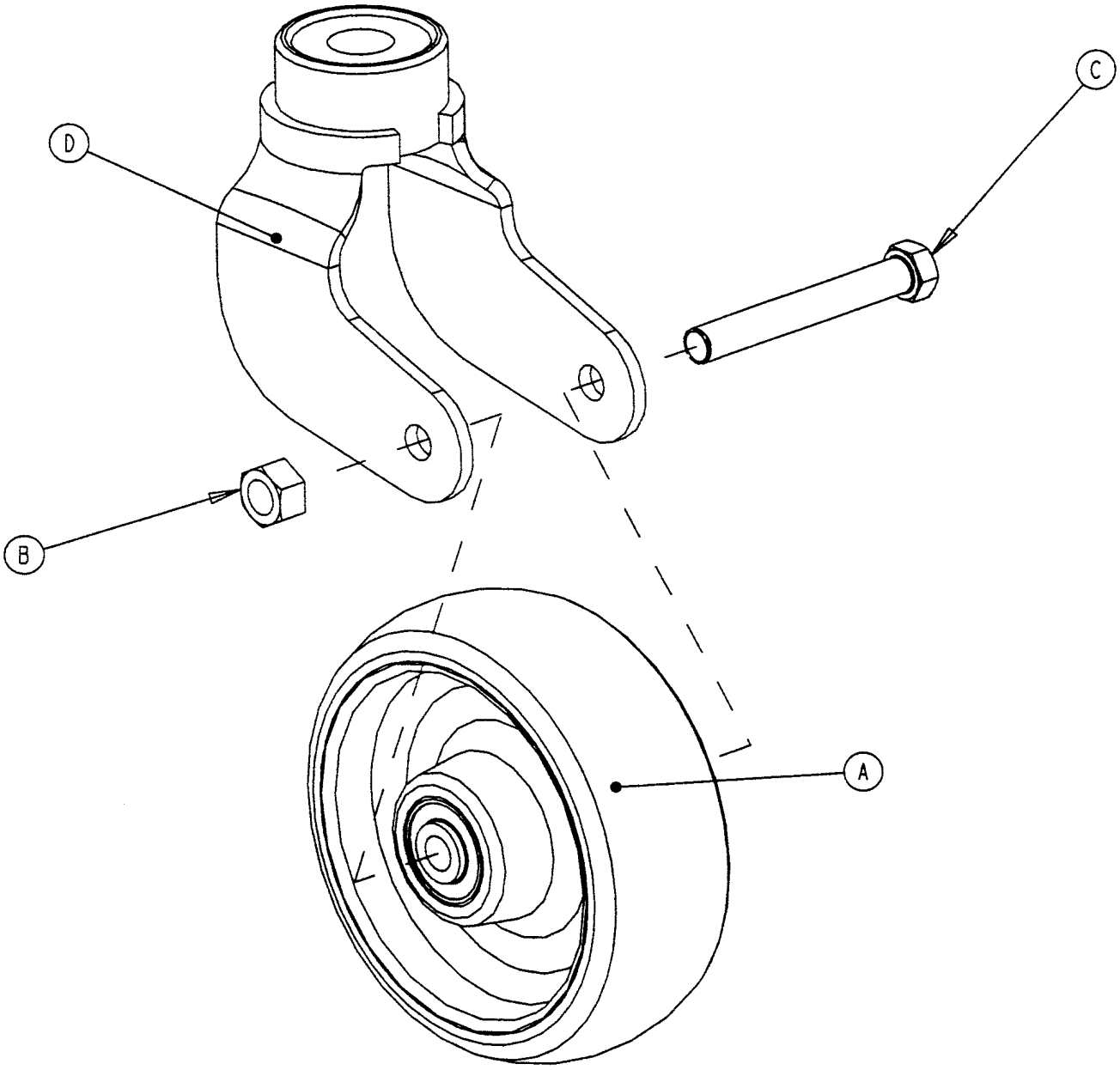
Assembly part number 3002–200–335 (reference only)



Item	Part No.	Part Name	Qty.
A	5–18	Carriage Bolt	4
B	16–35	Nylock Hex Nut	6
C	3000–200–318	Guide Pin	2
D	3000–200–321	Brake Ring	2
E	3000–200–323	Brake Bar	1
F	3000–200–324	Brake Bar Bumper	2
G	3002–200–310	Brake Bar Return Spring	2
H	7000–1–326	Sealing Tape	As Req'd

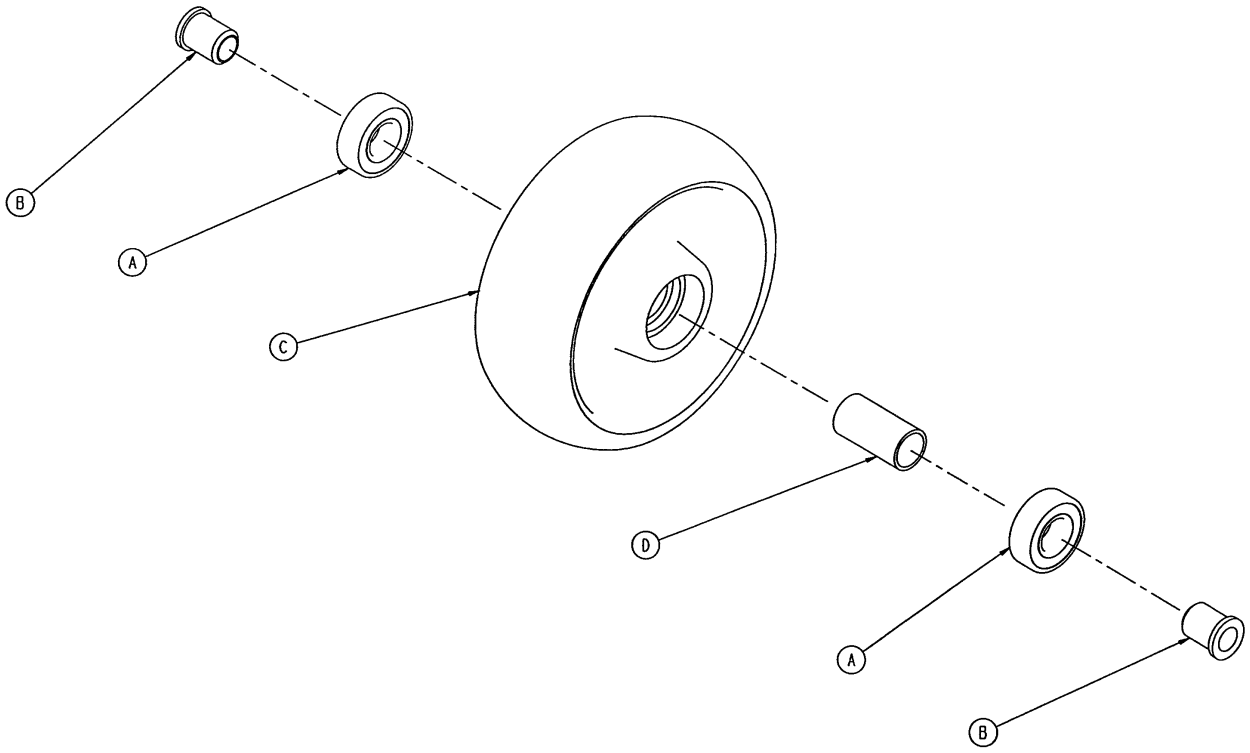
Chapter Ten Assembly Drawings and Parts Lists

3001–200–60 6” Caster Assembly



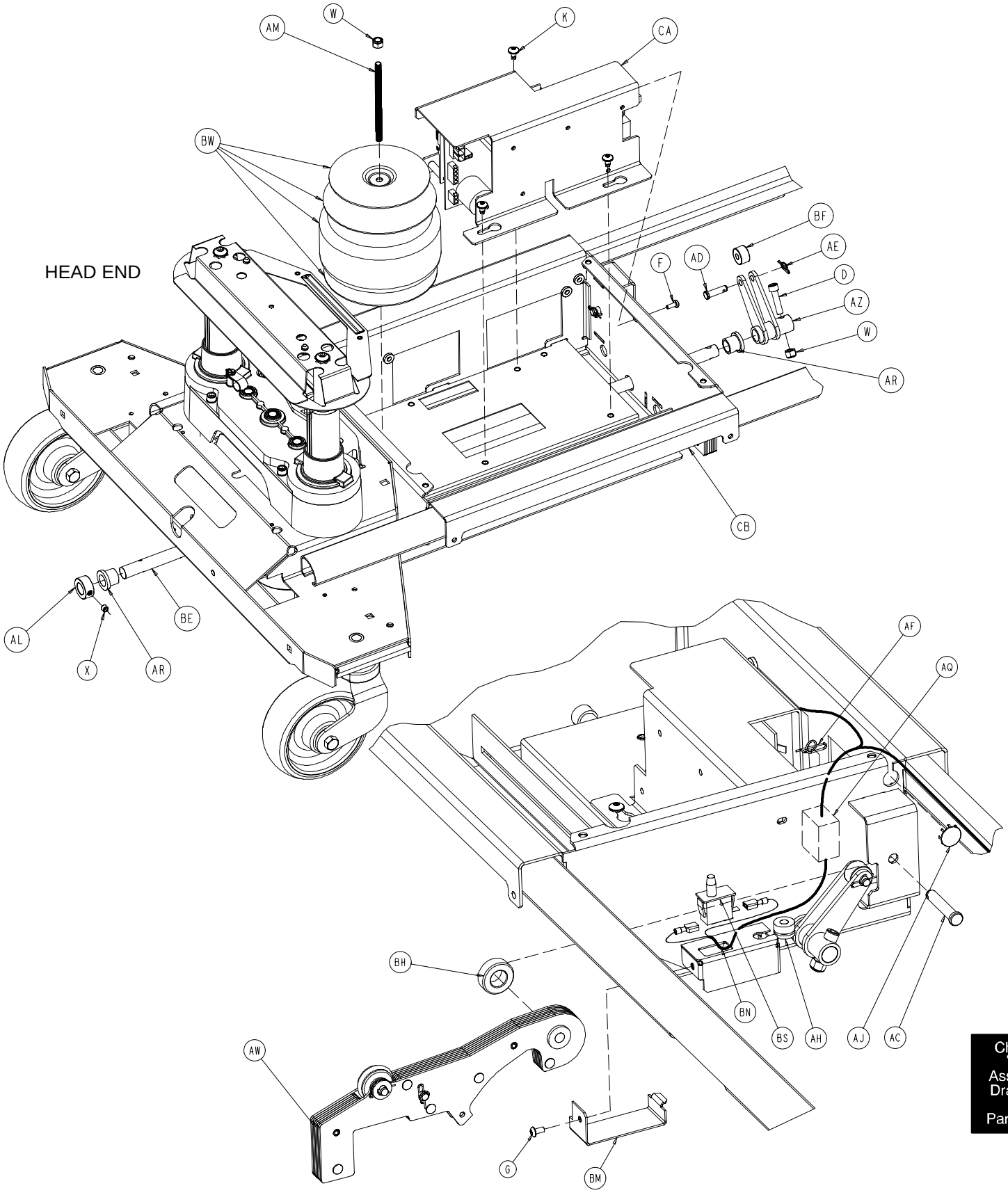
Item	Part No.	Part Name	Qty.
A	(page 10–20)	Wheel Assembly	1
B	16–60	Lock Nut	1
C	3–342	Hex Hd. Cap Screw	1
D	3001–200–61	Caster Horn w/Bearing	1

5000–2–10 6” Molded Wheel Assembly

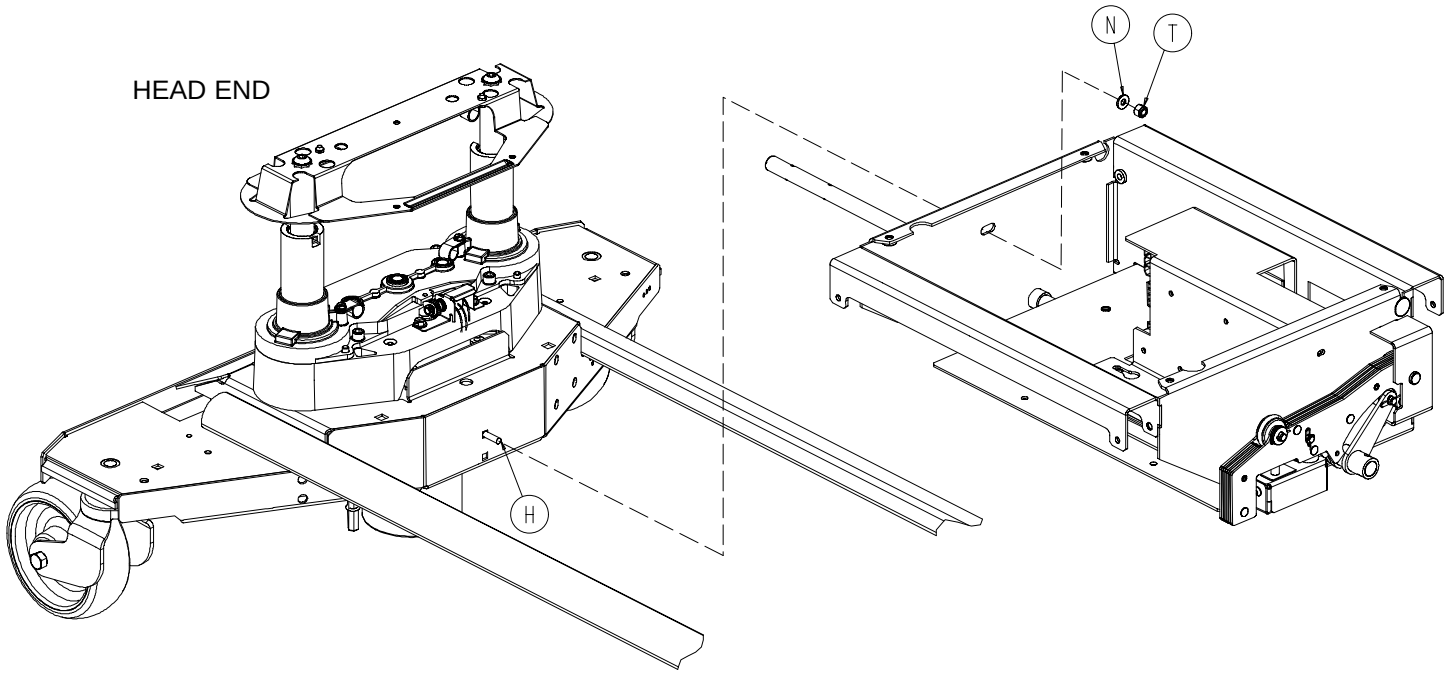


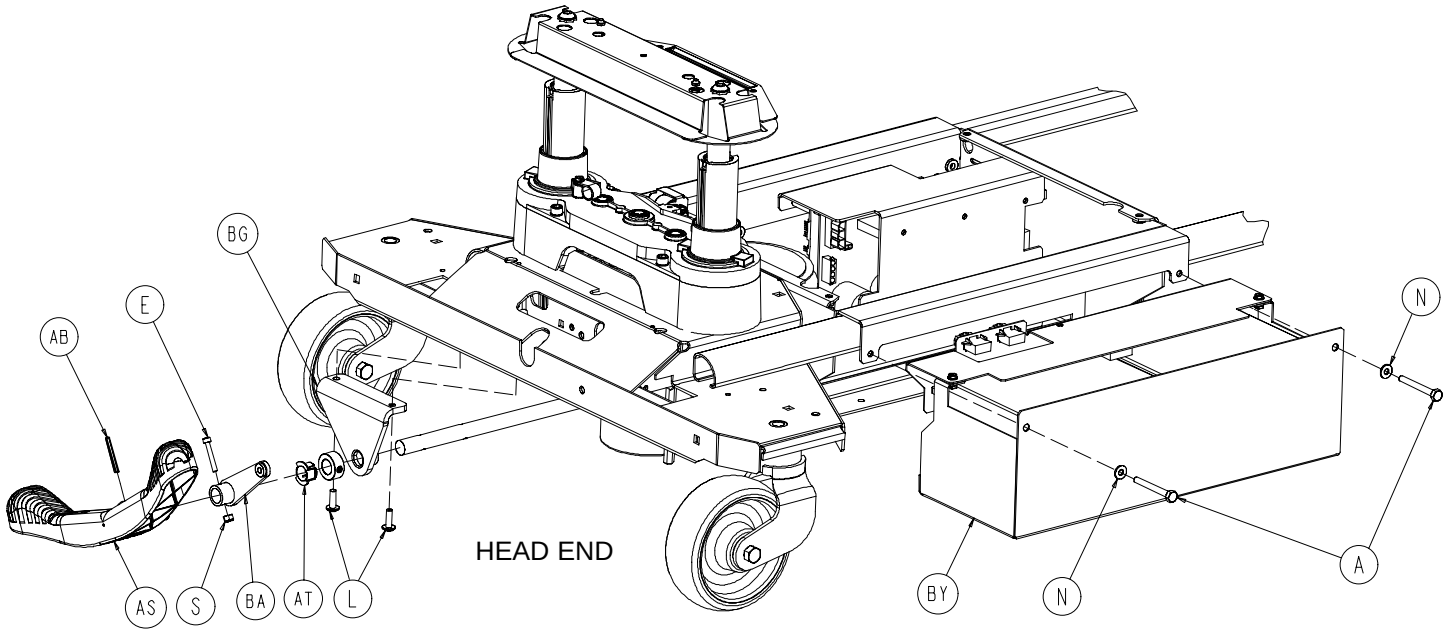
Item	Part No.	Part Name	Qty.
A	81–226	Bearing	2
B	715–1–255	Wheel Bushing	2
C	5000–2–20	Molded Wheel	1
D	6060–2–46	Bearing Spacer	1

Zoom Base Assembly

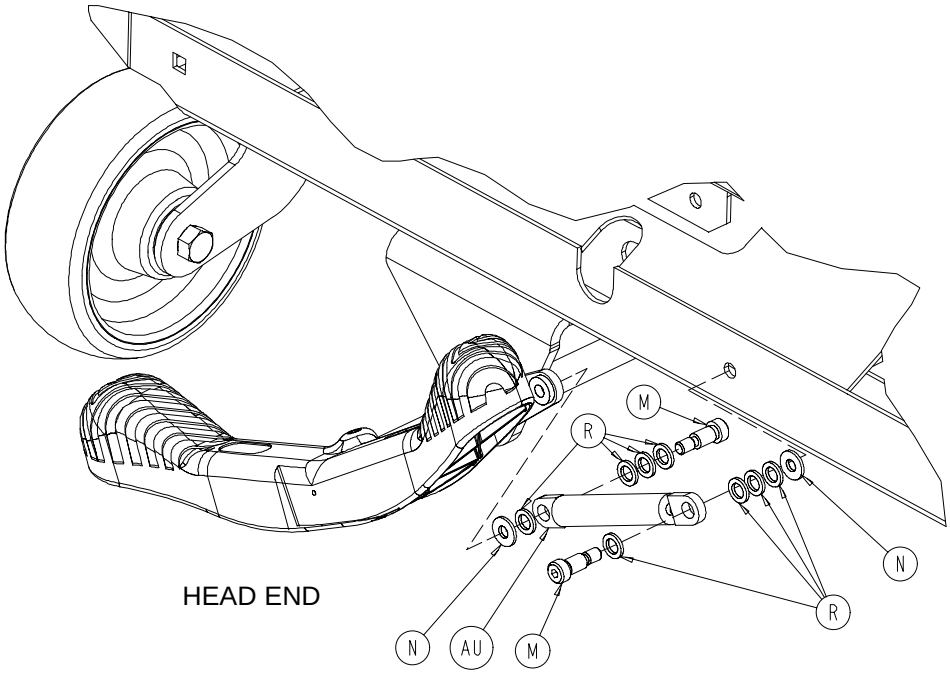


Zoom Base Assembly

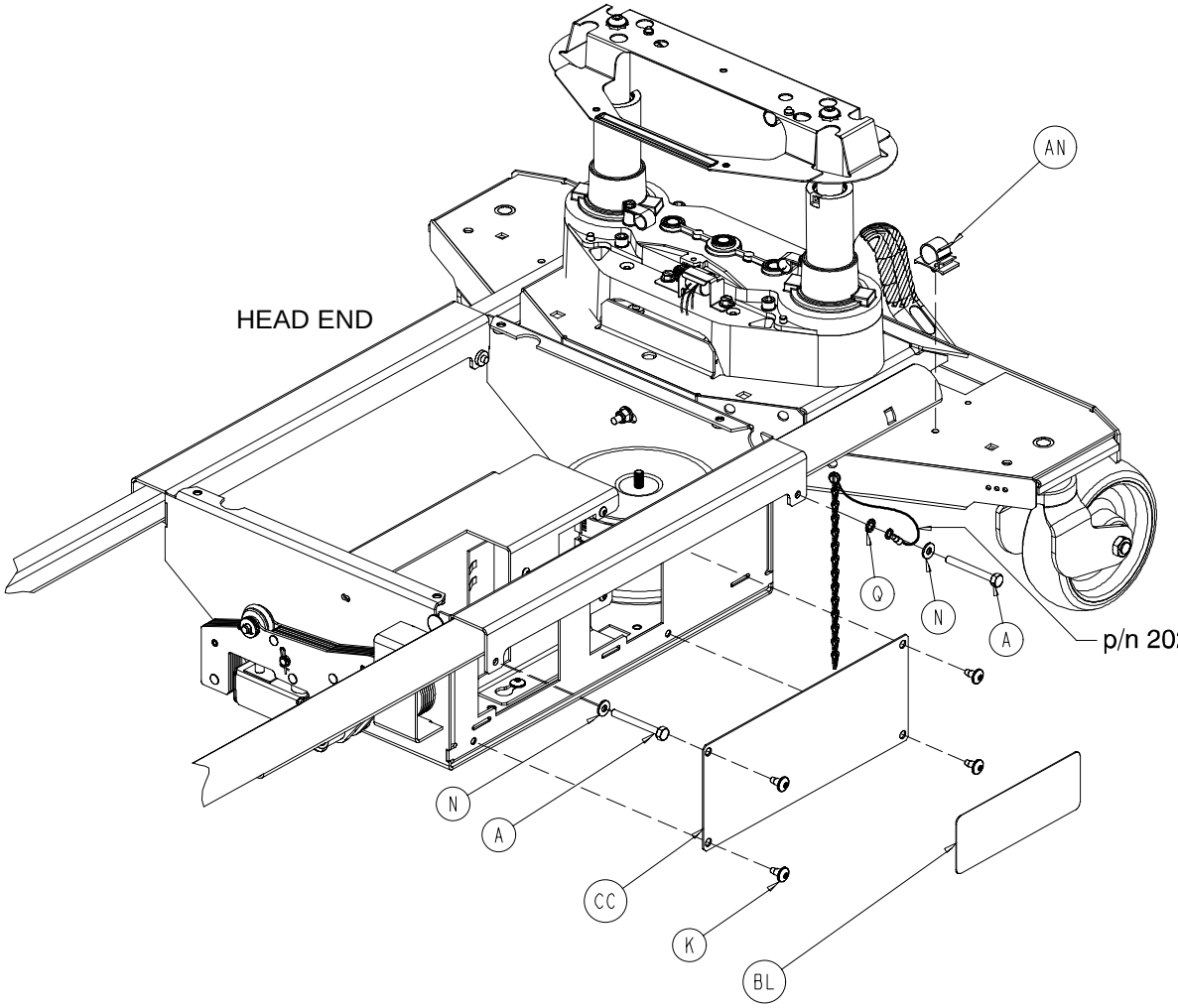




Zoom Base Assembly



HEAD END

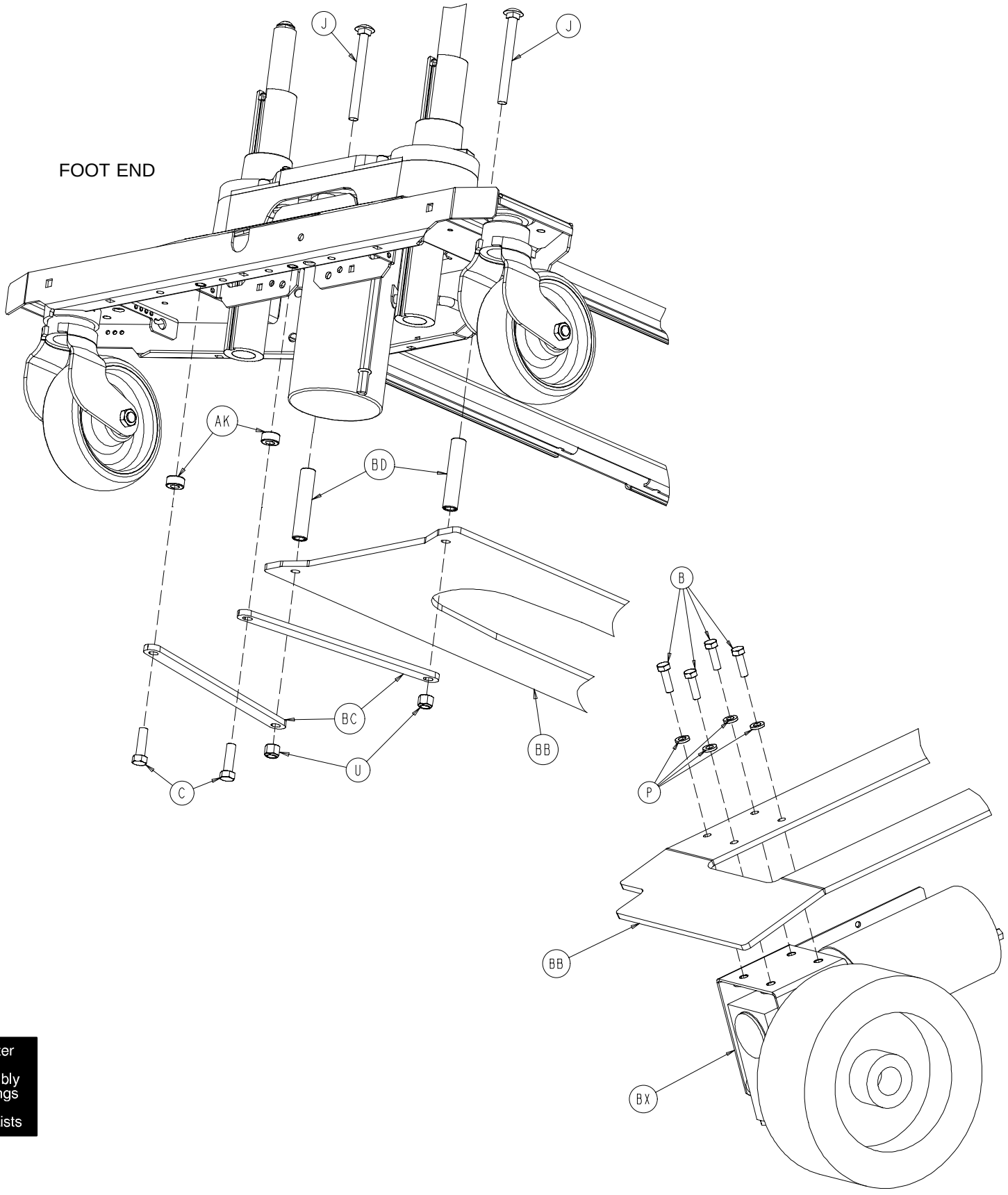


HEAD END

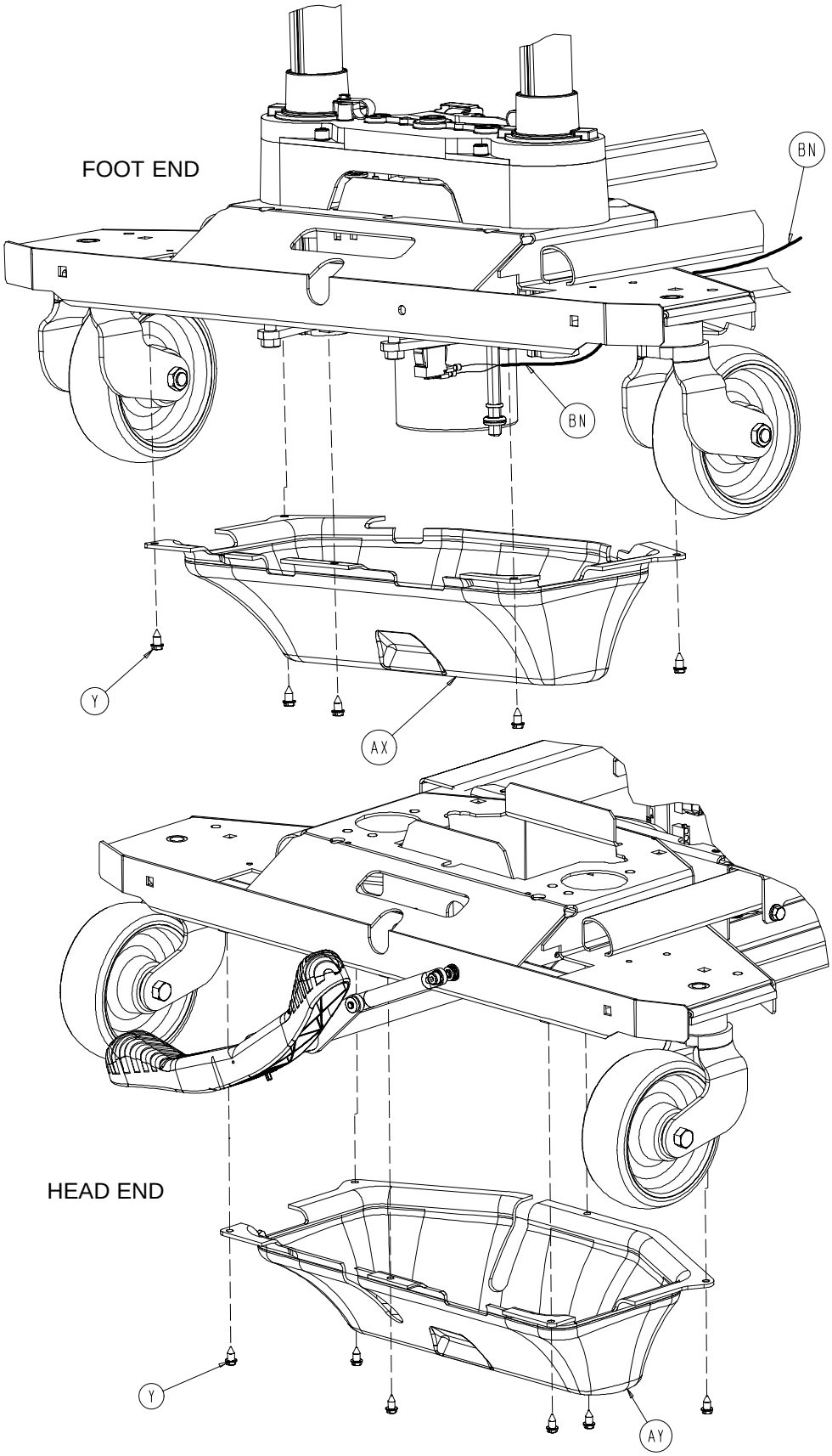
p/n 2025-31-805

Chapter Ten Assembly Drawings and Parts Lists

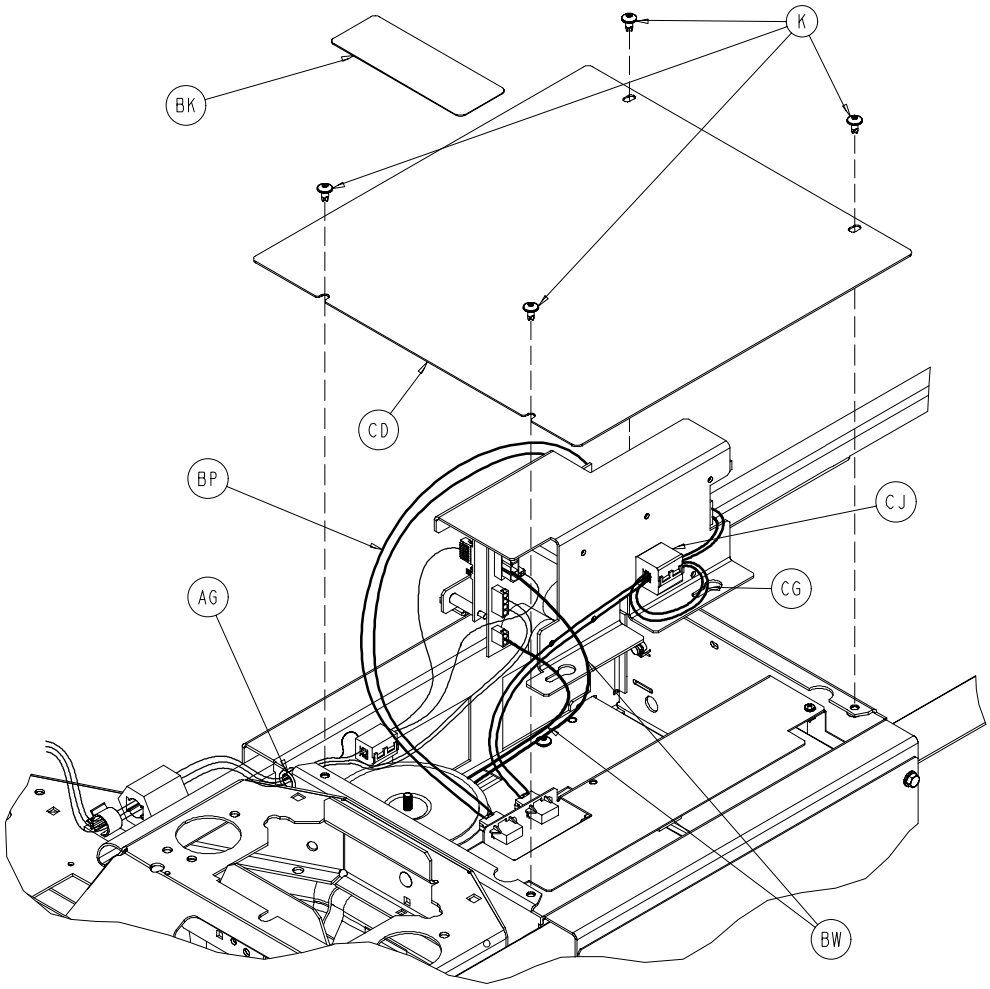
Zoom Base Assembly

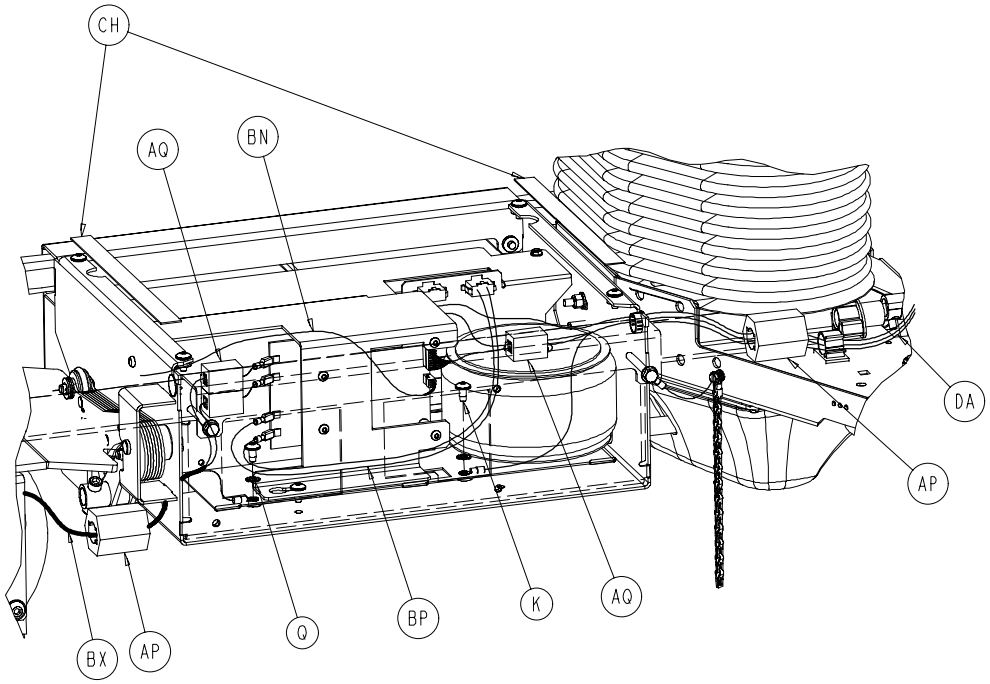


Zoom Base Assembly

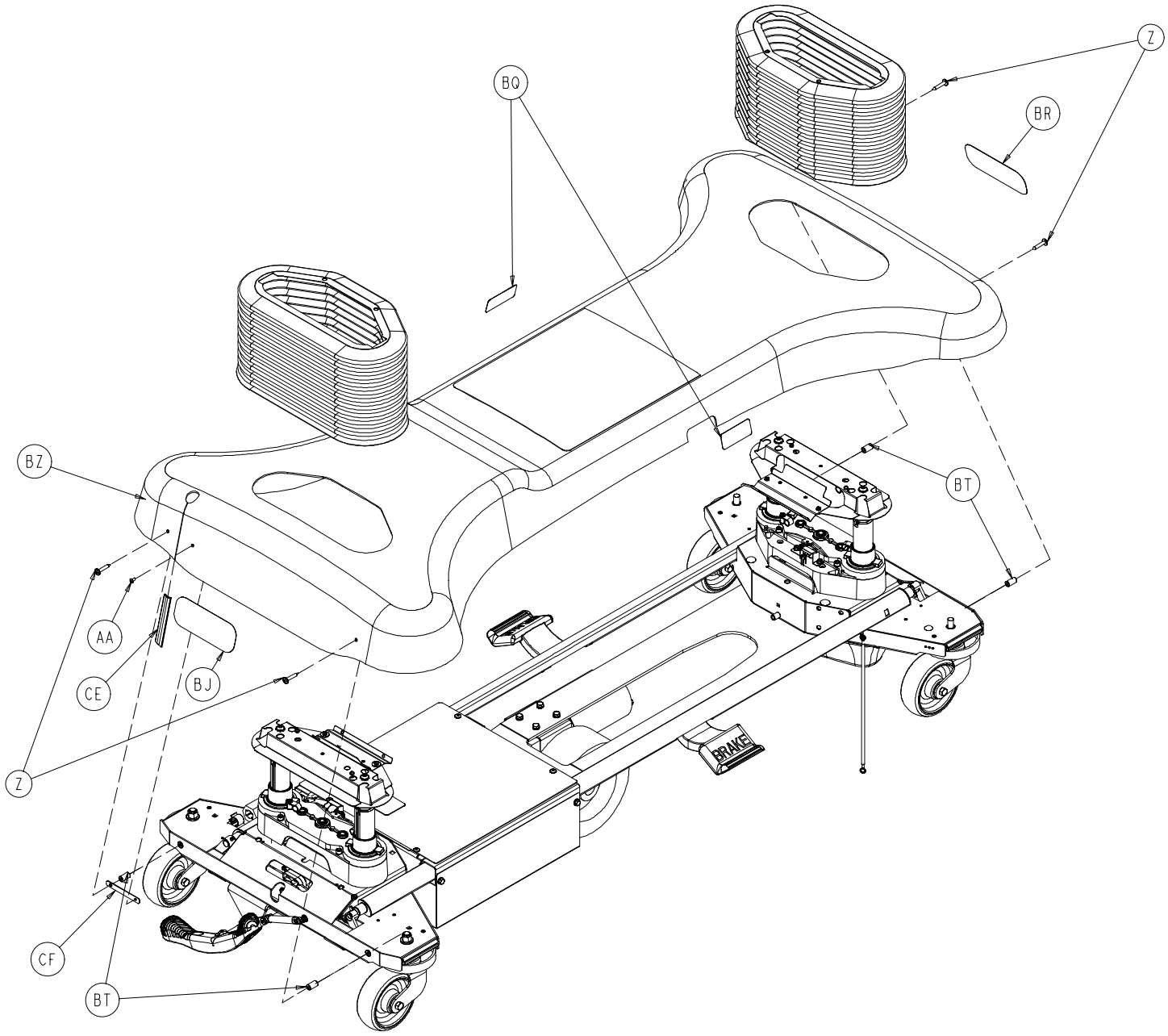


Zoom Base Assembly





Zoom Base Assembly



Zoom Base Assembly

Zoom Option Common Components – Part Number 3002–1–1 (Reference Only)

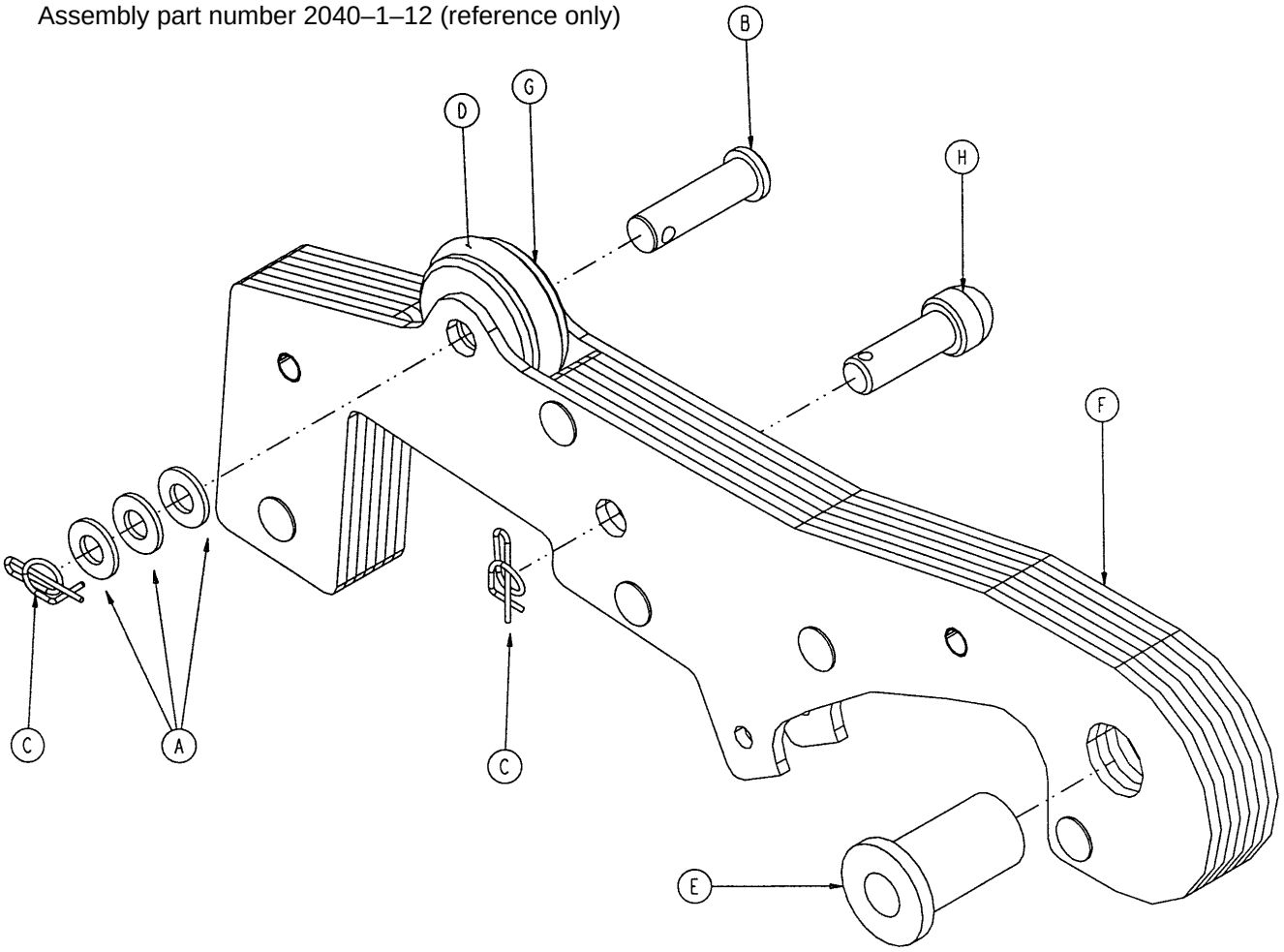
Item	Part No.	Part Name	Qty.	Item	Part No.	Part Name	Qty.
A	3–32	Hex Hd. Cap Screw	4	AS	1210–201–153	Butterfly “V” Pedal	1
B	3–85	Hex Hd. Cap Screw	4	AT	1210–201–251	Insert Bushing	1
C	3–120	Hex Hd. Cap Screw	2	AU	1210–201–671	Damper	1
D	4–39	Soc. Hd. Cap Screw	1	AW	(page 10–29)	Drive Whl. Lift Lever Ass’y	1
E	4–160	Soc. Hd. Cap Screw	1	AX	(page 10–30)	Foot End Bottom Cover	1
F	4–263	H. Soc. But. Hd. Cap Screw	1	AY	(page 10–30)	Head End Bottom Cover	1
G	4–307	Soc. But. Hd. Cap Screw	1	AZ	2040–1–51	Pedal Crank Weldment	1
H	5–17	Carriage Bolt	1	BA	2040–1–53	Damper Crank Weldment	1
J	5–31	Carriage Bolt	2	BB	2040–1–60	Leaf Spring	1
K	7–52	Truss Hd. Torx	13	BC	2040–1–61	Tie Down Strap	2
L	7–63	Truss Hd. Torx	2	BD	2040–1–62	Reinforcement Tube	2
M	8–49	Soc. Hd. Shoulder Bolt	2	BE	2040–1–82	Pedal Rod	1
N	11–63	Washer	7	BF	2040–1–83	Pedal Crank Roller	1
P	12–20	Lock Washer	4	BG	2040–1–84	Pedal Rod Pivot Bracket	1
Q	13–10	Ext. Tooth Star Washer	5	BH	2040–1–98	Lift Lever Spacer	1
R	14–3	Plastic Washer	8	BJ	2040–1–100	Drive Whl. Position Label	1
S	16–3	Nylock Nut	1	BK	2040–1–101	Charger Box Cover	1
T	16–28	Nylock Nut	1	BL	2040–1–102	Power Bd. Cover Label	1
U	16–35	Nylock Nut	2	BM	2040–1–103	Charger Box Sw. Brkt. Cov.	1
W	16–36	Nylock Nut	2	BN	2040–1–801	Base Switch Cable	1
X	21–22	Set Screw	1	BP	2040–1–804	Pwr. Bd. DC Pwr. Cable	1
Y	23–25	Hex Washer Hd. Screw	10	BQ	3000–200–601	Brake Label	2
Z	23–281	Self–Tapping Screw	4	BR	3000–200–602	Stryker Logo Label	1
AA	25–79	Pop Rivet	1	BS	3000–300–58	Limit Switch	1
AB	26–261	Groove Pin	1	BT	3000–300–428	Gatch Link Sleeve	4
AC	26–277	Clevis Pin	1	BU	3000–300–113	Wire Ties	2
AD	26–197	Clevis Pin	1	BW	3001–1–10	Transformer	1
AE	27–21	Rue Ring Cotter	1	BX	(page 10–31)	Drive Train Assembly	1
AF	27–22	Rue Ring Cotter	1	BY	(page 10–32)	Battery Tray Assembly	1
AG	30–38	Split Bushing	1	BZ	3002–1–18	Hood Assembly	1
AH	30–40	E–A–R Grommet	1	CA	(page 10–33)	Base Power Assembly	1
AJ	37–221	Hole Plug	1	CB	3002–1–50	Charger Box Weldment	1
AK	42–6	Collar	2	CC	3002–1–68	Power PCB Cover	1
AL	42–20	Lock Collar	1	CD	3002–1–71	Charger/Inverter Cover	1
AM	58–90	Threaded Stud	1	CE	3002–1–78	Hood Slot Trim	1
AN	59–133	Push–Mount Wire Clip	1	CF	3002–1–79	Hood Slot Trim Bracket	1
AP	59–192	Split Ferrite	1	CG	3002–1–802	Inverter/Battery Cable	1
AQ	59–194	Split Ferrite	2	CH	7000–1–326	Foam Tape (10”)	2
AR	81–245	Bronze Bushing	2	CJ	59–144	Split Ferrite	1

2040–244–10 ICU Zoom Option (Ref.)

Item	Part No.	Part Name	Qty.
DA	2040–201–809	Umbilical Cable Ass’y	1

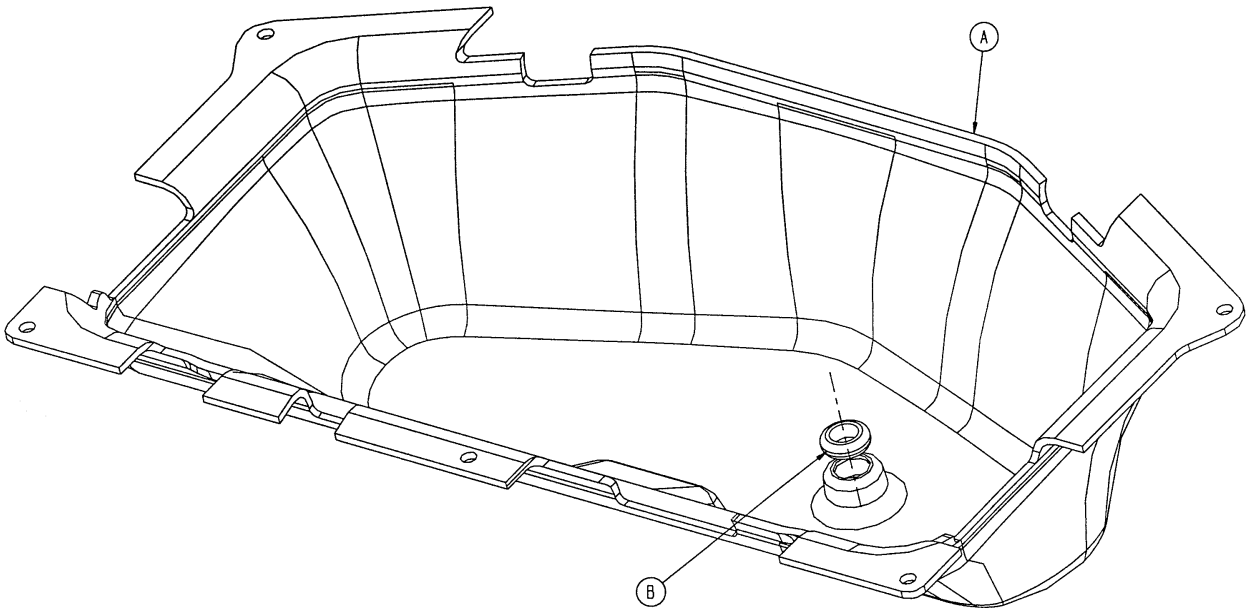
Drive Wheel Lift Lever Assembly

Assembly part number 2040–1–12 (reference only)



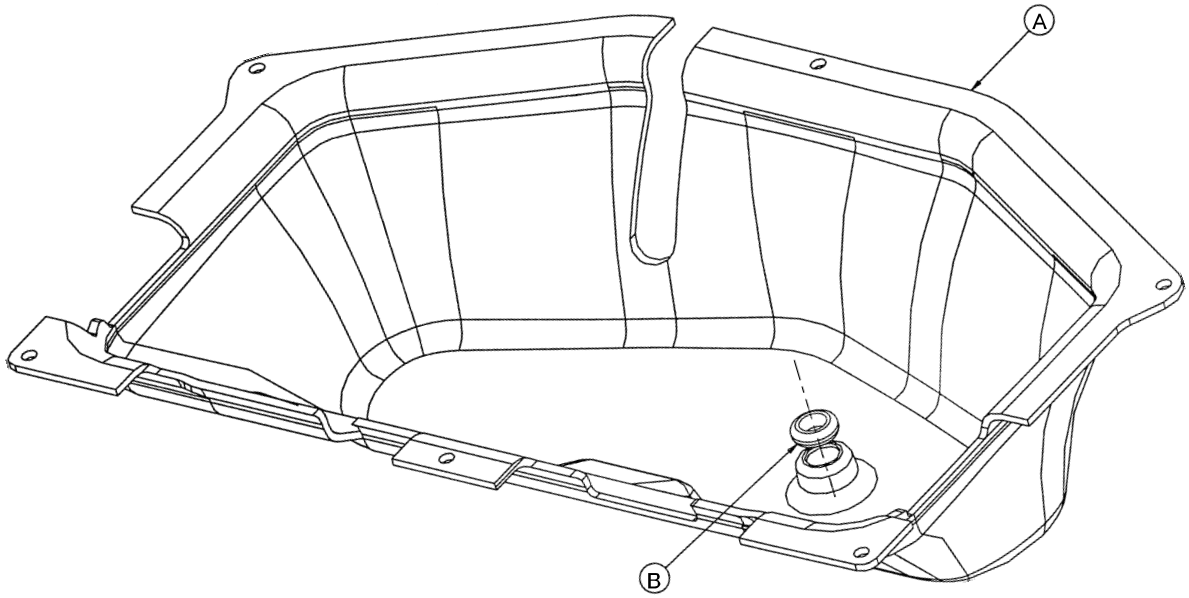
Item	Part No.	Part Name	Qty.
A	11–3	Washer	3
B	26–297	Clevis Pin	1
C	27–21	Rue Ring	2
D	45–232	O–Ring	1
E	81–70	Flange Bearing	1
F	2040–201–13	Drive Wheel Lift Plate Ass'y	1
G	2040–1–87	Lift Lever Roller	1
H	2040–1–99	Lift Lever Guide	1

2040–1–16 Foot End Bottom Cover



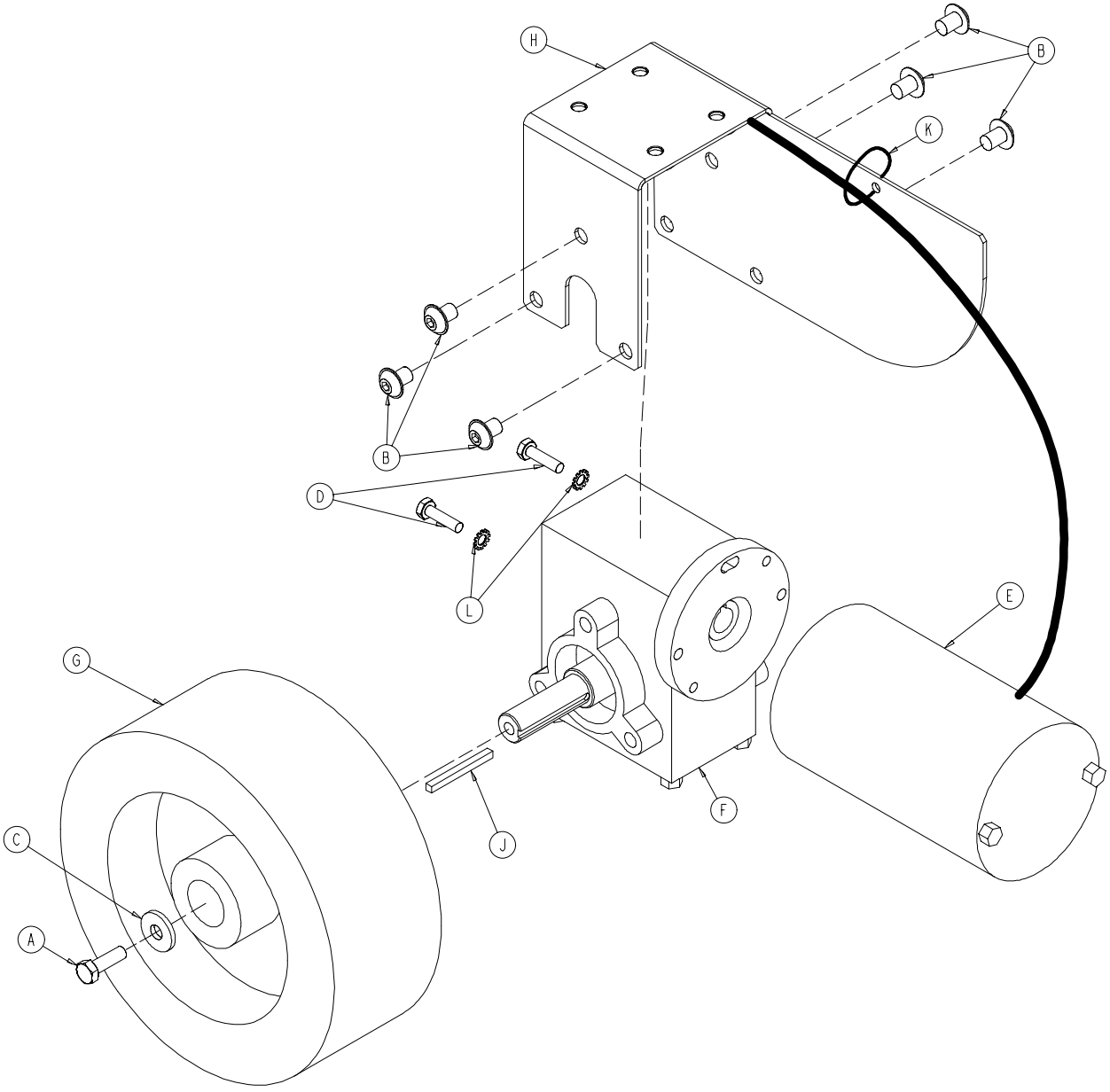
Item	Part No.	Part Name	Qty.
A	2040–1–78	Foot End Bottom Cover	1
B	3000–000–039	Grommet	1

2040–1–17 Head End Bottom Cover



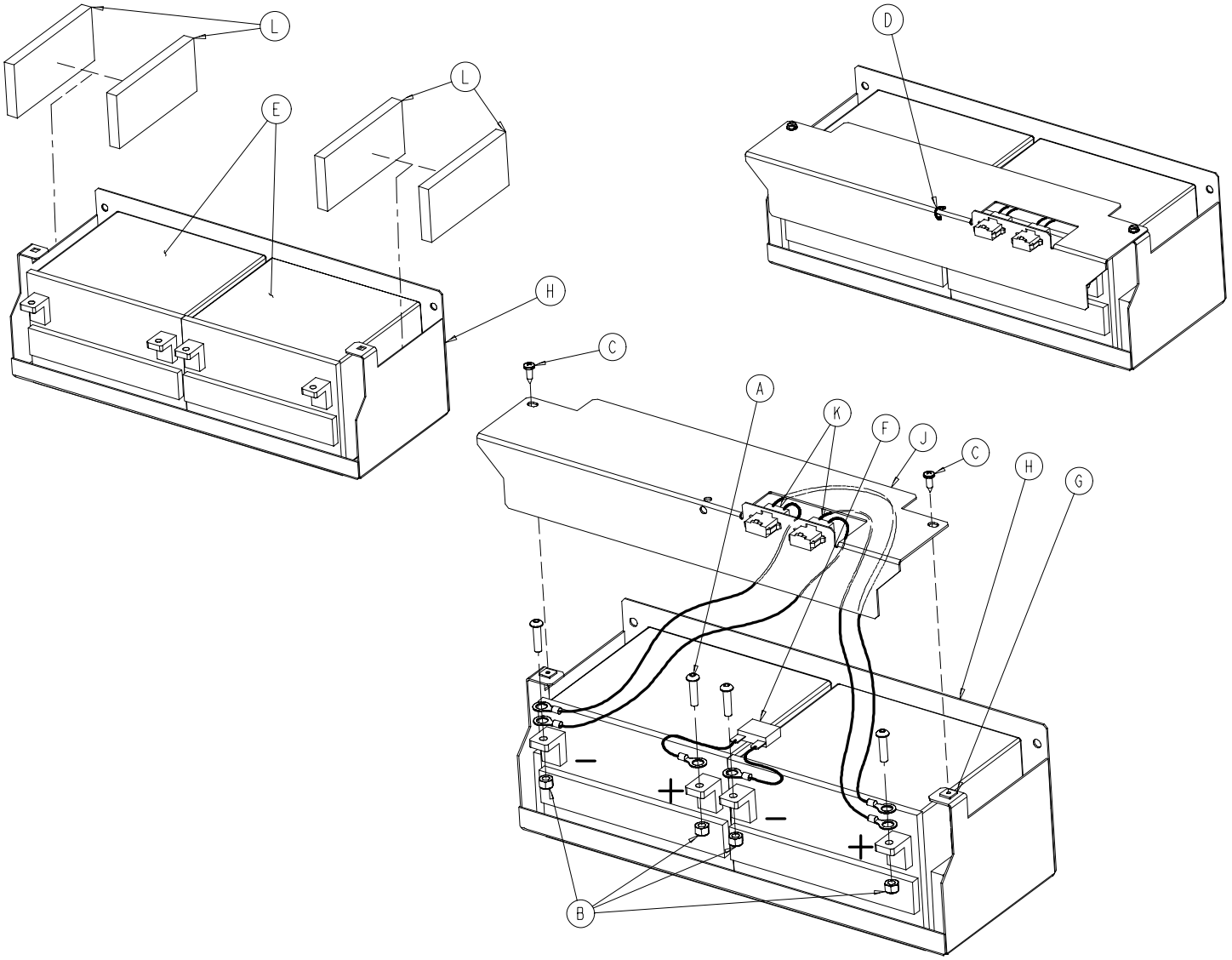
Item	Part No.	Part Name	Qty.
A	2040–1–79	Head End Bottom Cover	1
B	3000–000–039	Grommet	1

3002–1–14 Zoom Drive Train Assembly



Item	Part No.	Part Name	Qty.
A	8839–793–700	Hex Hd. Cap Screw	1
B	4–245	Flanged But. Hd. Cap Screw	6
C	11–262	Washer	1
D	3–54	Hex Hd. Cap Screw	2
E	3002–1–72	Drive Train Motor	1
F	2040–1–73	Gear Box	1
G	2040–1–74	Drive Train Wheel	1
H	2040–1–75	Motor Mounting Bracket	1
J	2040–1–97	Square Key	1
K	3000–300–113	Wire Tie	1
L	13–10	Star Washer	2

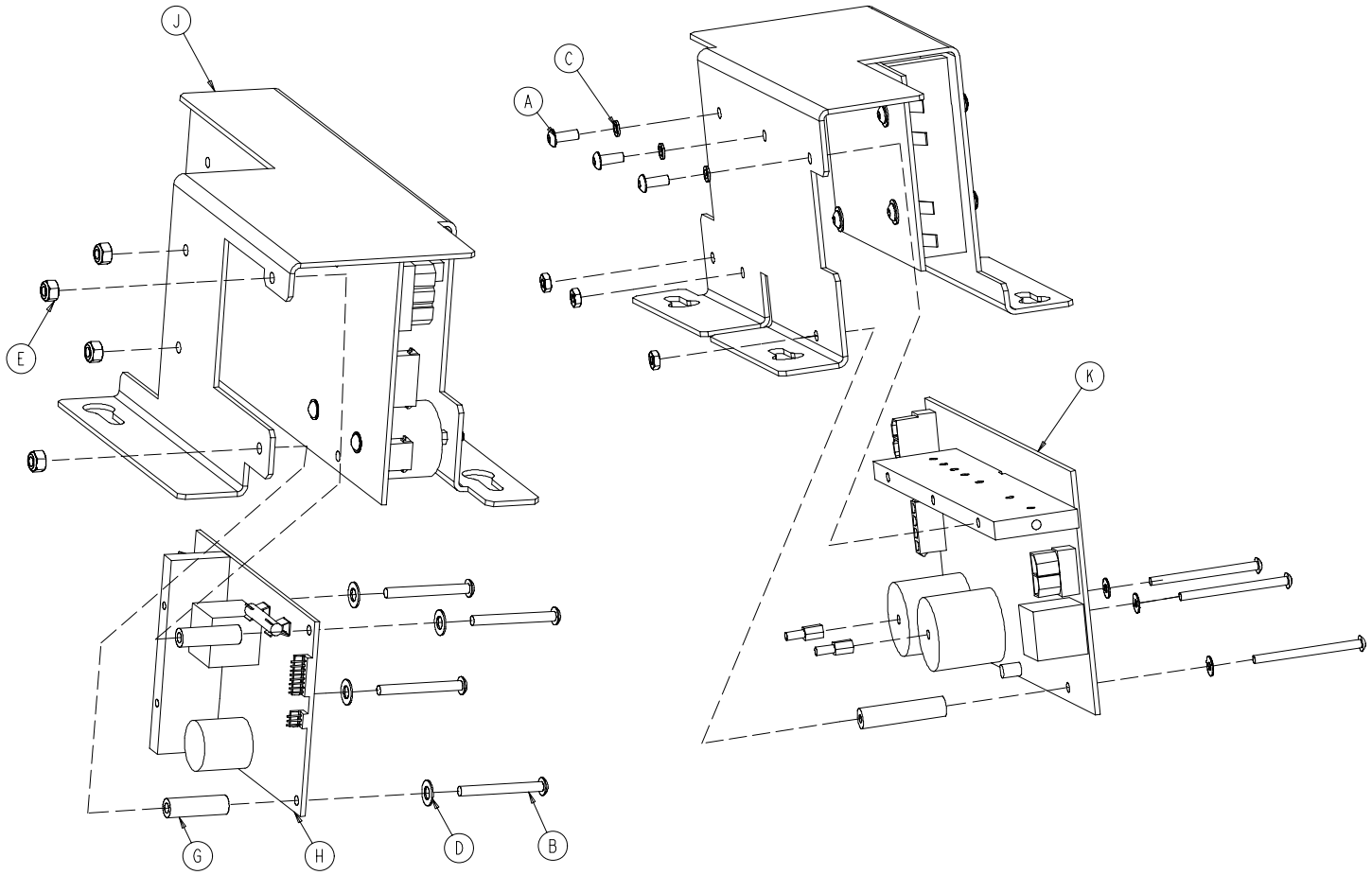
3002–1–15 Zoom Battery Tray Assembly



WIRING VIEW

Item	Part No.	Part Name	Qty.
A	4–46	But. Hd. Cap Screw	4
B	16–28	Nylock Nut	4
C	23–256	Pan Hd. Screw	2
D	38–151	Cable Tie	1
E	2040–1–70	Battery	2
F	2040–1–802	Battery Jumper Cable	1
G	3000–300–2	Push Nut	2
H	3002–1–69	Battery Tray	1
J	3002–1–91	Terminal Guard	1
K	3002–1–803	Battery Harness Cable	2
L	5000–101–43	Foam Block	4

3002–1–30 Zoom Base Power Assembly

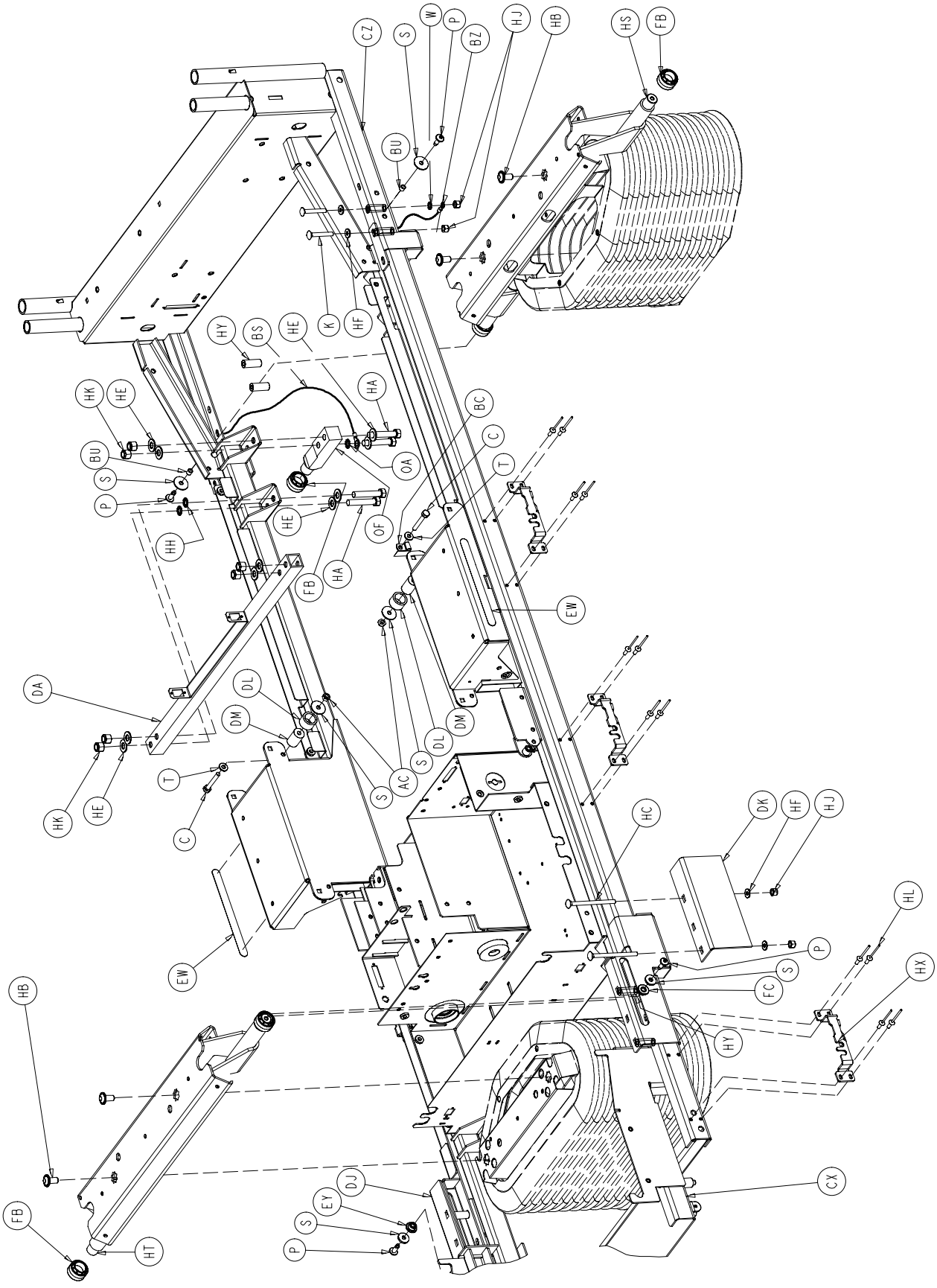


Item	Part No.	Part Name	Qty.
A	4–263	But. Hd. Cap Screw	3
B	4–315	But. Hd. Cap Screw	4
C	12–6	Helical Lock Washer	3
D	14–4	Nylon Washer	4
E	16–2	Fiberlock Nut	4
G	59–187	Spacer	2
H	2040–1–900	Power Board	1
J	3002–1–17	Charger/Inverter Heat Bracket	1
K	3002–1–910	Charger/Inverter Board Ass'y	1

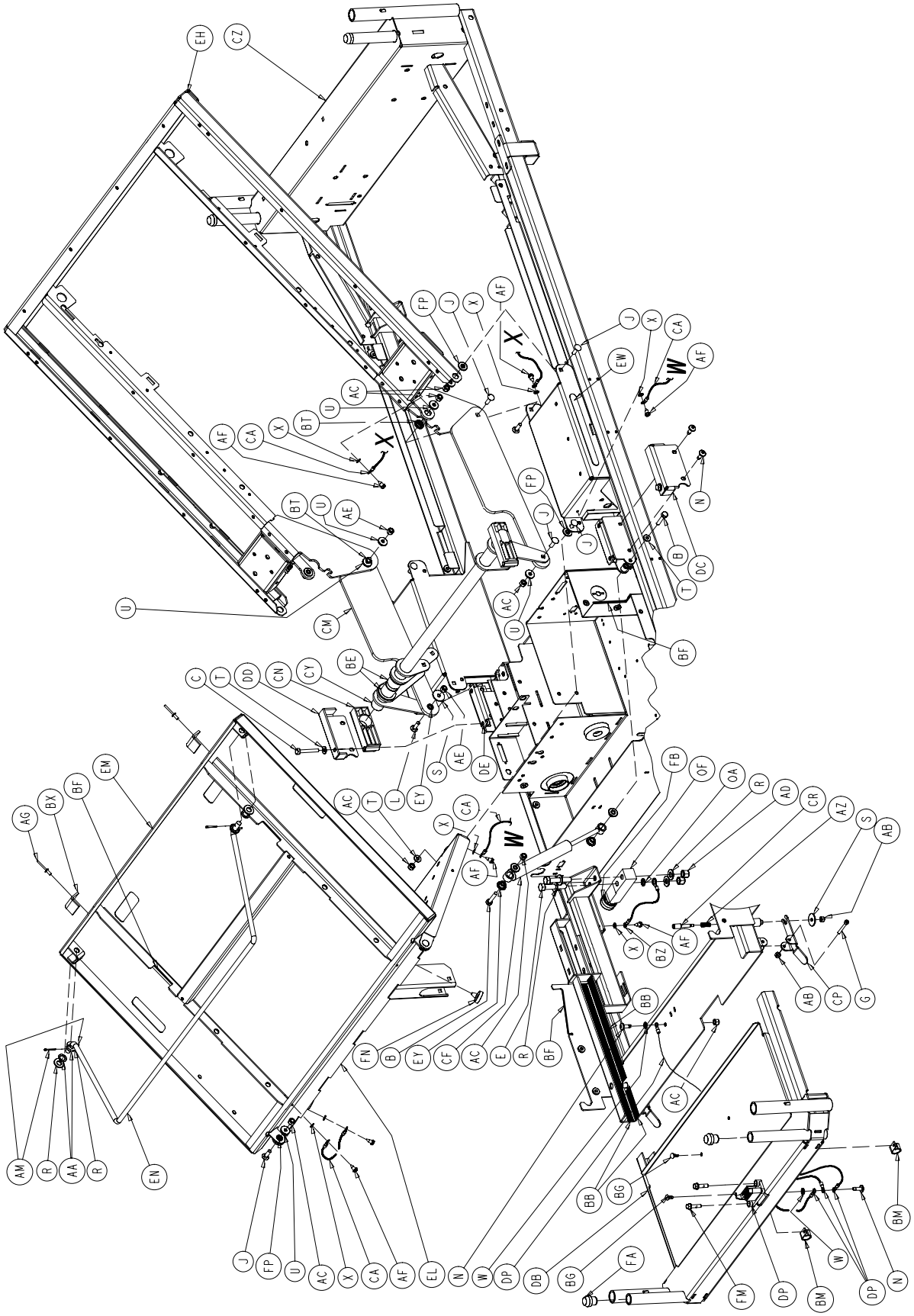
Chapter Ten Assembly Drawings and Parts Lists

Notes

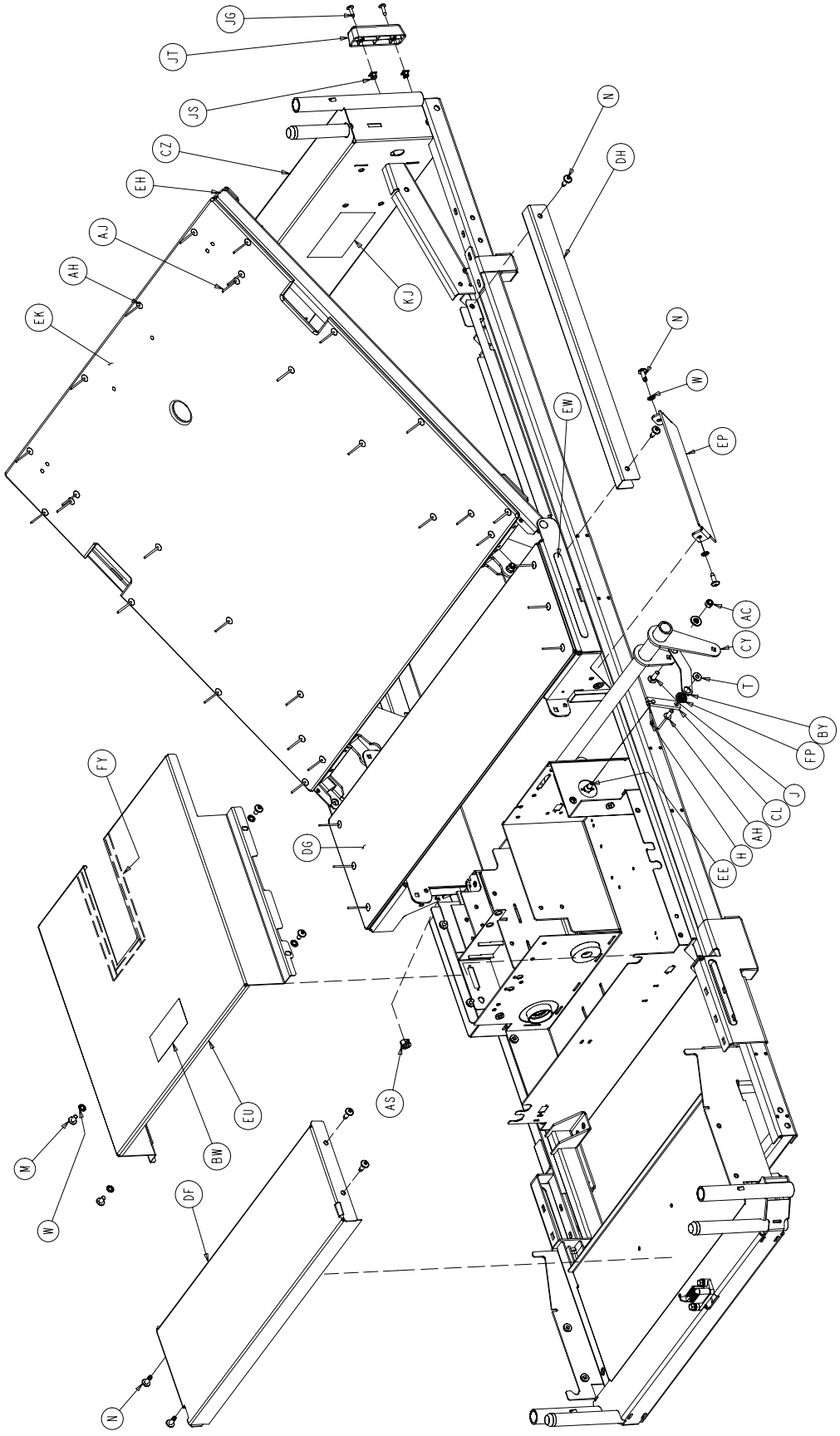
Litter Assembly and Options



Litter Assembly and Options

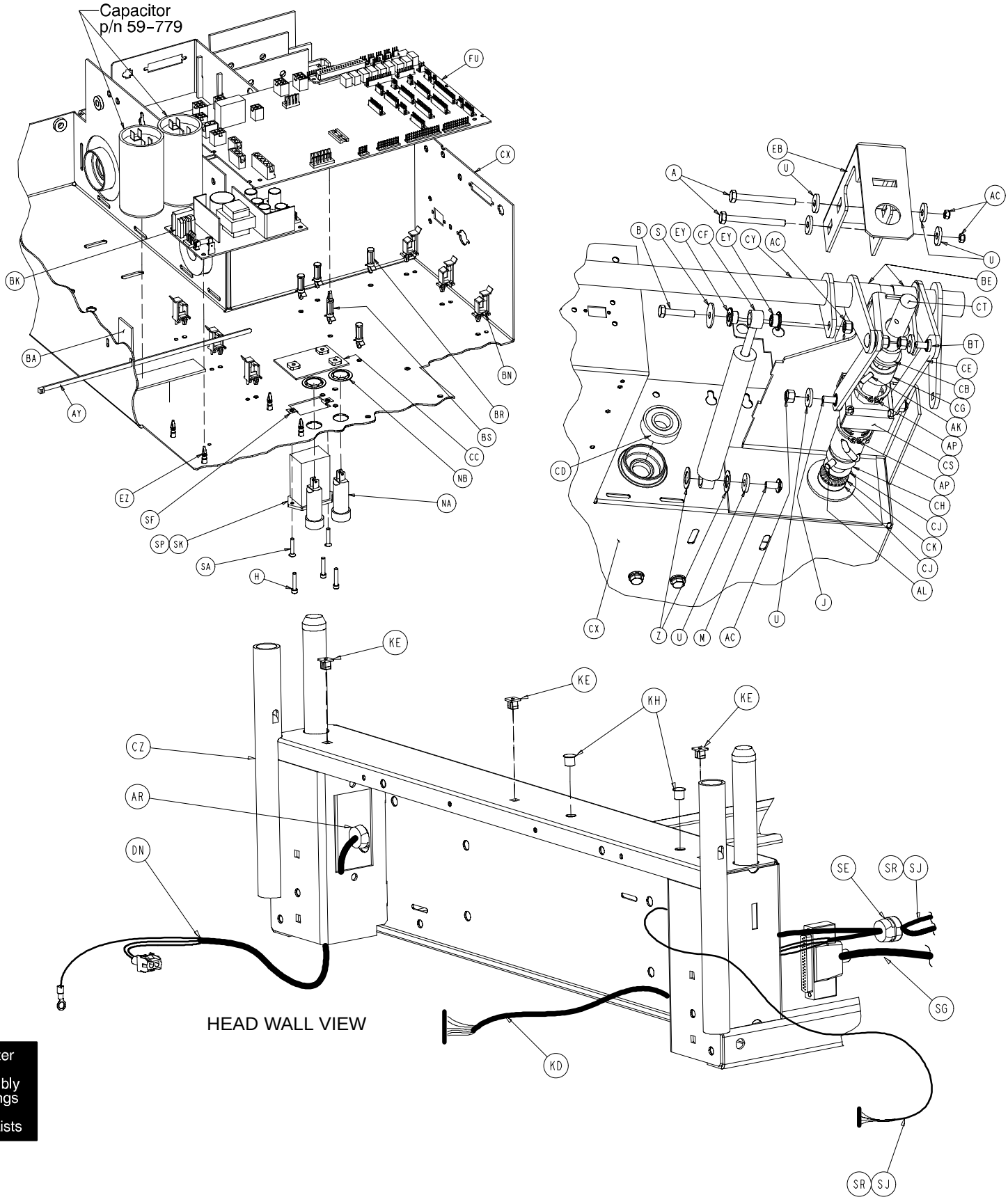


Litter Assembly and Options

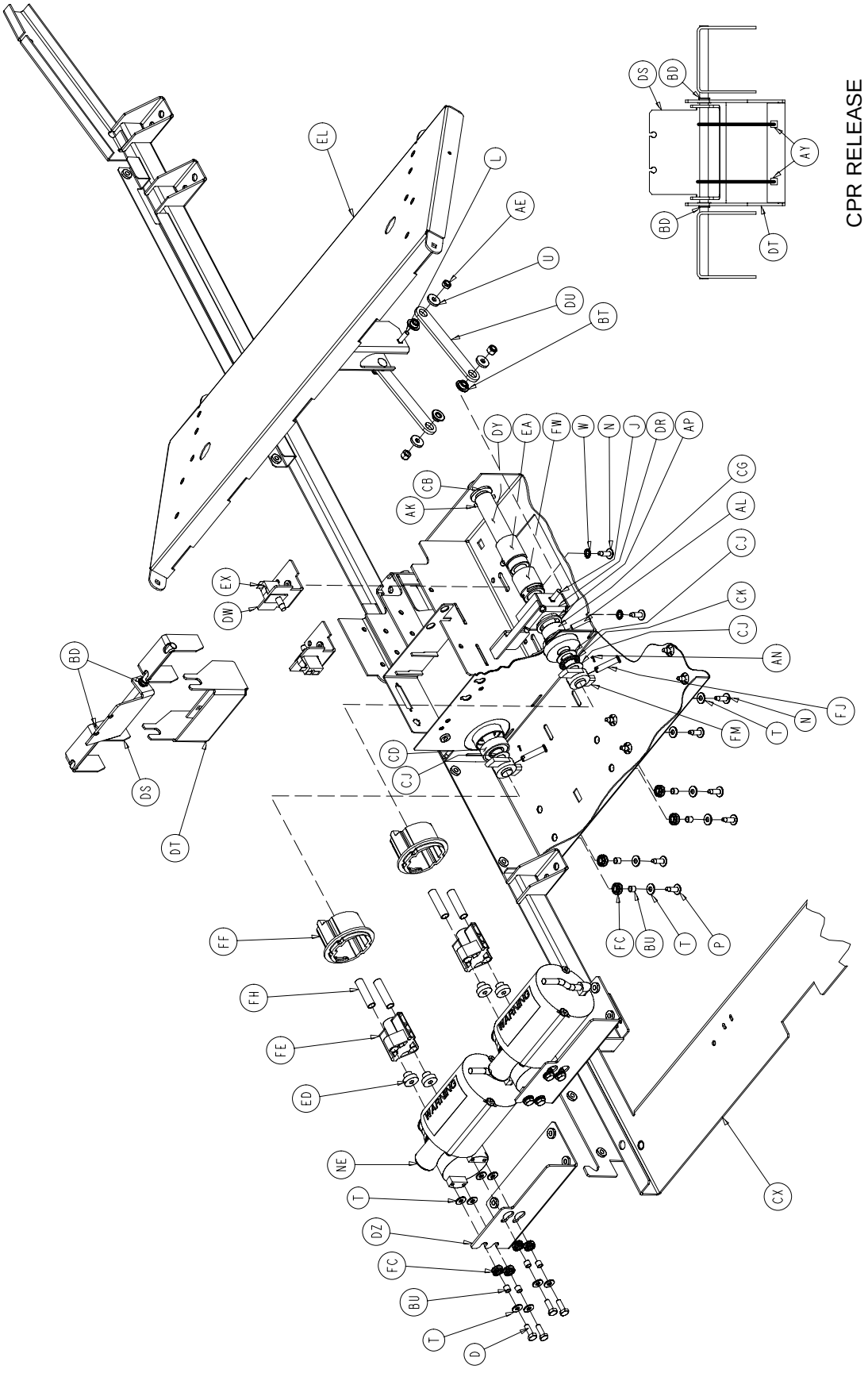


Chapter Ten Assembly Drawings and Parts Lists

Litter Assembly and Options

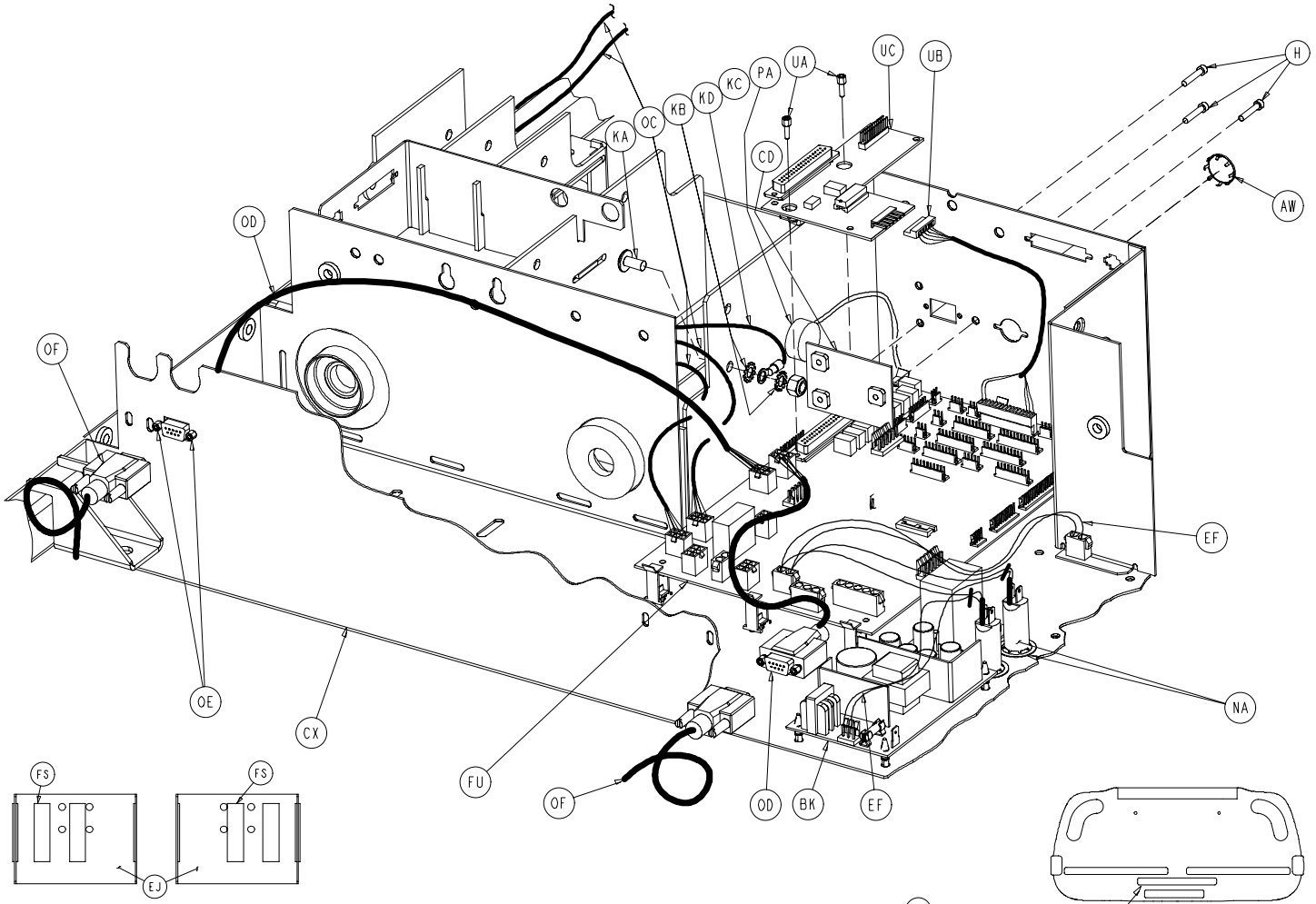


Litter Assembly and Options

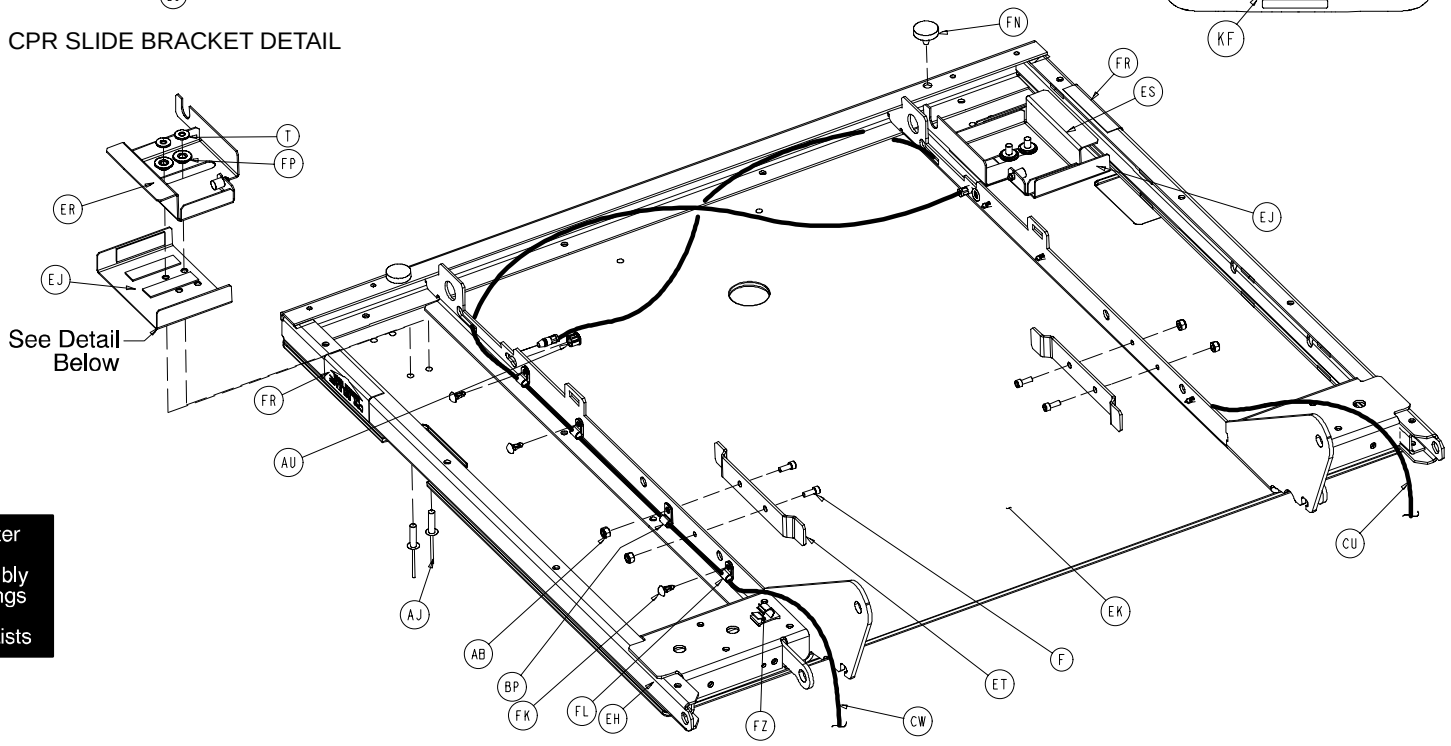


Chapter Ten Assembly Drawings and Parts Lists

Litter Assembly and Options

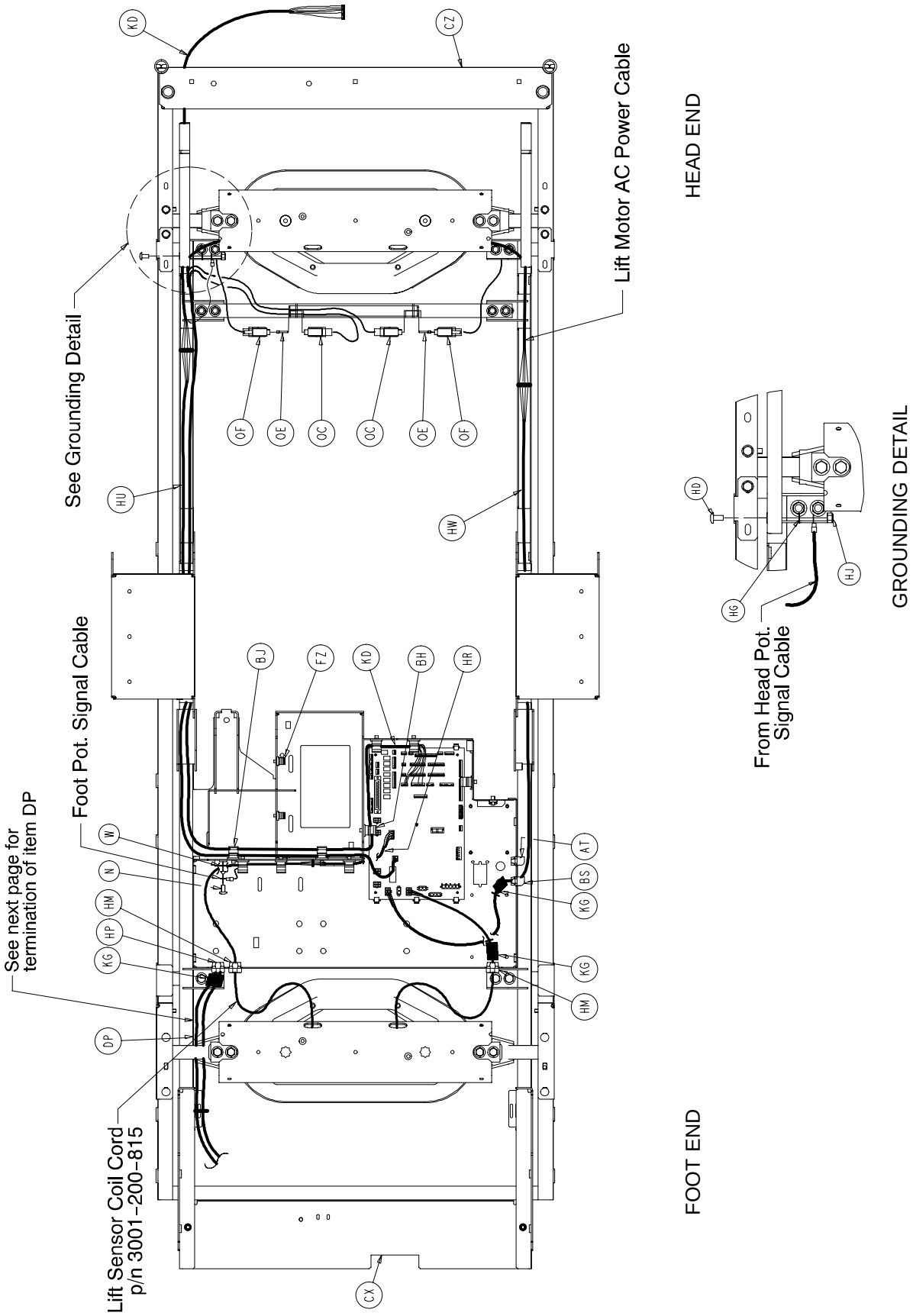


CPR SLIDE BRACKET DETAIL



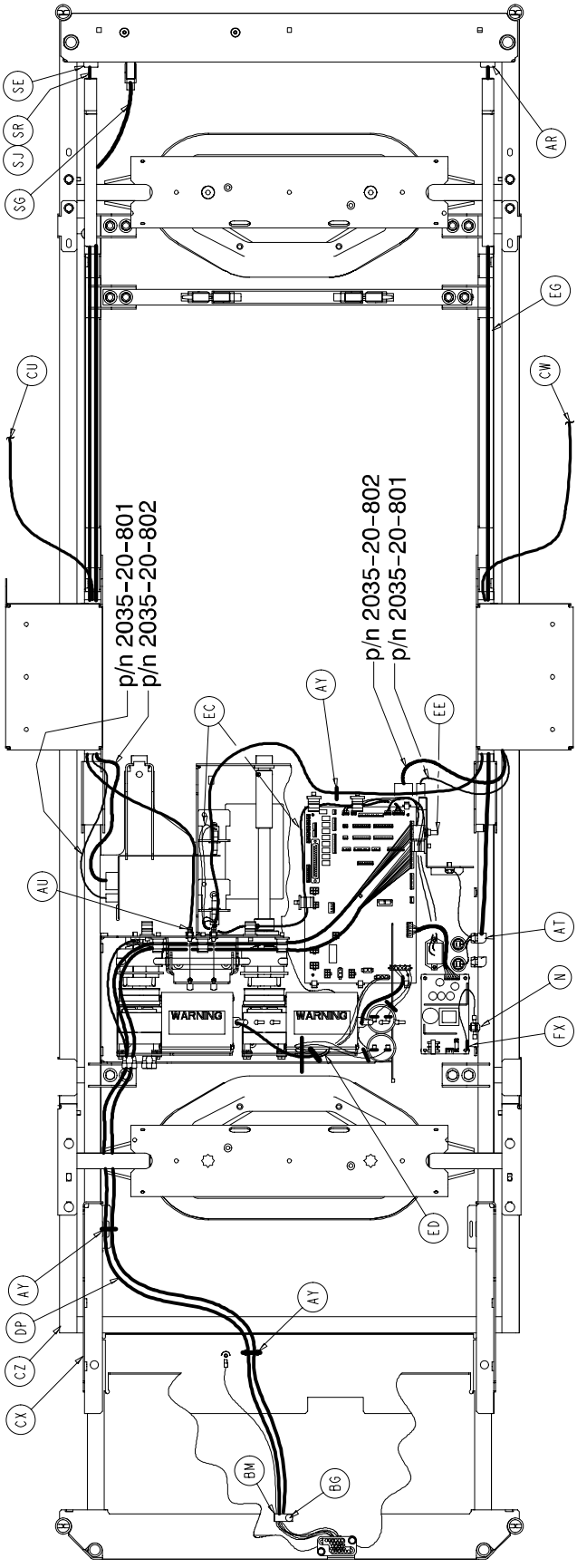
Chapter Ten Assembly Drawings and Parts Lists

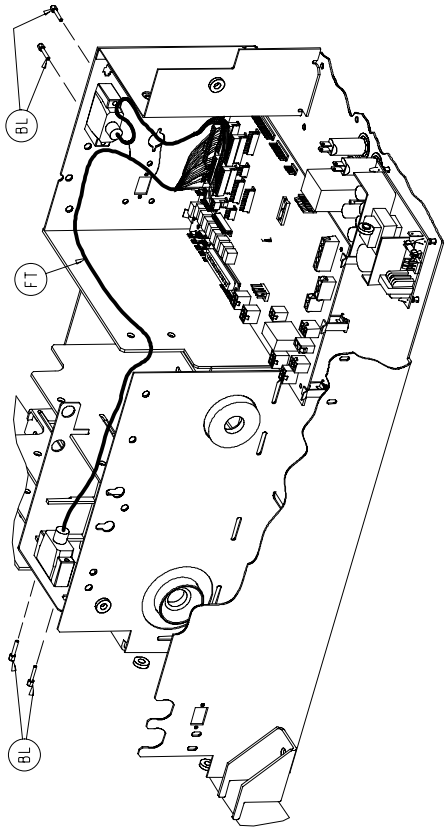
Litter Assembly and Options



Chapter Ten Assembly Drawings and Parts Lists

Litter Assembly and Options





SIDERAIL EXTENSION CABLE ROUTING

Litter Assembly and Options

2030–231–10 Common Litter Components

Item	Part No.	Part Name	Qty.	Item	Part No.	Part Name	Qty.
A	3–23	Hex Hd. Cap Screw	2	BS	59–774	Locking PCB Support	1
B	3–74	Hex Hd. Cap Screw	3	BT	81–268	Flange Bearing	14
C	3–78	Hex Hd. Cap Screw	4	BU	715–1–133	Rel. Valve Stop Sleeve	18
D	3–214	Hex Hd. Cap Screw	8	BW	1550–90–13	Shock Caution Label	1
E	3–347	Hex Hd. Cap Screw	4	BX	2020–34–758	Calf Section Rest	2
F	4–32	Soc. Hd. Cap Screw	4	BY	2025–31–62	Pot. Actuator Link	1
G	4–85	Soc. Hd. Cap Screw	2	BZ	2025–31–804	Ground Jumper	4
H	4–101	Soc. Hd. Cap Screw	4	CA	2025–31–805	Ground Strap	6
J	5–19	Carriage Bolt	18	CB	2025–32–68	Flange Bearing	2
K	5–22	Carriage Bolt	4	CC	2025–32–74	Cover Plate	1
L	5–23	Carriage Bolt	3	CD	2025–32–76	Ball Bearing	2
M	7–58	Truss Hd. Torx	5	CE	2025–32–77	Fowler Actuator Link	2
N	7–63	Truss Hd. Torx	23	CF	2025–32–82	Hydraulic Dampener	2
P	7–65	Truss Hd. Torx	16	CG	2025–32–84	Fowler Screw Up Stop	1
R	11–4	Washer	12	CH	2025–32–85	Fowler Screw Down Stop	1
S	11–53	Washer	10	CJ	2025–32–86	Thrust Washer	5
T	11–63	Washer	44	CK	2025–32–87	Roller Cage Bearing	2
U	11–158	Washer	24	CL	2025–231–61	Pot. Timing Clamp	1
W	13–10	Ext. Tooth Lock Washer	16	CM	2025–231–88	Fowler Link	2
X	13–18	Ext. Tooth Lock Washer	14	CN	2025–231–90	Torque Tube Pivot Brg.	2
Y	13–32	Ext. Tooth Lock Washer	2	CP	2025–231–99	Bed Extender Rel. Lever	2
Z	14–7	Washer	2	CR	2025–231–112	Bed Extender Pin Lock	2
AA	14–8	Washer	4	CS	2025–232–89	Fowler Nut Box	1
AB	16–3	Nylock Nut	4	CT	2025–232–90	Fowler Ball Screw	1
AC	16–28	Nylock Nut	25	CU	2035–31–48	Short CPR Cable	1
AD	16–35	Nylock Nut	8	CW	2035–31–49	Long CPR Cable	1
AE	16–102	Nylock Nut	5	CX	2035–31–50	Scale Frame Weldment	1
AF	23–25	Hex Washer Hd. Screw	14	CY	2035–31–51	Torque Tube Weldment	1
AG	25–79	Rivet	2	CZ	2035–31–54	Iso. Frame Weldment	1
AH	25–142	Rivet	29	DA	2035–31–55	Head End Crosstube	1
AJ	25–147	Rivet	4	DB	2035–31–57	Bed Extender Weldment	1
AK	26–12	Roll Pin	2	DC	2035–31–64	Torque Tube Ret. Brkt., Lt.	1
AL	26–168	Spiral Pin	2	DD	2035–31–65	Torque Tube Ret. Brkt., Rt.	1
AM	27–15	Cotter Pin	4	DE	2035–31–66	Torque Block Channel	2
AN	27–17	Cotter Pin	2	DF	2035–31–94	Foot Support Cover	1
AP	28–120	External Retaining Ring	3	DG	2035–31–97	Seat Section Skin	1
AR	30–27	Strain Relief	1	DH	2035–31–100	Wire Channel Cover	2
AS	30–36	Grommet	4	DJ	2035–31–115	Roller Bracket Cover, Rt.	1
AT	30–47	Right Angle Strain Relief	1	DK	2035–31–116	Roller Bracket Cover, Lt.	1
AU	30–52	Snap Bushing	4	DL	2035–31–126	Protective Sleeve	2
AW	37–221	Hole Plug	1	DM	2035–31–127	Nylon Stop	2
AX	38–111	Cable Tie	10	DN	2035–31–801	Inlet/Fuse Cable	1
AY	38–151	Cable Tie	17	DP	2035–31–802	Foot Board/CPU Cable	1
AZ	38–382	Compression Spring	2	DR	2035–32–52	Gatch Trigger Weldment	1
BA	44–29	Black Foam Tape	1	DS	2035–32–54	CPR Release Wldmt. Brkt.	1
BB	44–32	1” Wide Poly Tape	50”	DT	2035–32–72	CPR Release Pivot Brkt.	1
BC	52–104	Cable Clamp	2	DU	2035–32–77	Gatch Actuator Link	2
BD	52–759	Flange Bearing	2	DW	2035–32–79	Act. Box Cherry Swch. Brkt.	2
BE	52–762	Nyliner Bushing	2	DX	2035–32–84	Gatch Screw Up Stop	1
BF	58–56	Black Edge Trim	6”	DY	2035–32–85	Gatch Screw Down Stop	1
BG	58–76	Drive Fastener	2	DZ	2035–32–88	Act. Box Motor Mtg. Brkt.	2
BH	59–133	Push–Mount Wire Clip	1	EA	2035–32–90	Gatch Ball Screw Ass’y	1
BJ	59–135	Push–Mount Wire Clip	8	EB	2035–32–96	Ball Screw Cover	1
BK	59–157	Power Supply	1	EC	2035–32–801	Gatch Limit Switch Cable	1
BL	59–727	Jack Screw	4	ED	2035–32–802	Fowler/CPU Jumper Cable	1
BM	59–743	Wire Harness Clip	2	EE	2035–32–803	Fowler Pot. Cable	1
BN	59–751	Locking Circuit Bd. Supt.	6	EF	2035–32–804	Fuse/PCB Cable	1
BP	59–767	Cable Clamp	2	EG	2035–32–805	CPU/Power Supply Cable	1
BR	59–773	Push Spacer	4	EH	2035–33–50	Fowler Frame Weldment	1

Litter Assembly and Options

2030–231–10 Common Litter Components (Continued)

Item	Part No.	Part Name	Qty.	Item	Part No.	Part Name	Qty.
EJ	2035–33–62	CPR Release Slide Brkt.	2	FE	3000–300–456	CPR Isolator	2
EK	2035–33–63	Fowler Skin	1	FF	3000–300–461	CPR Decoupler	2
EL	2035–34–50	Thigh Section Weldment	1	FG	3000–300–462	CPR Wing	2
EM	2035–35–50	Foot Section Weldment	1	FH	3000–300–464	CPR Engagement Spring	4
EN	2035–35–96	Foot Prop Rod	1	FJ	3000–300–473	Clevis Pin	2
EP	2035–231–85	Seat Section Cover	2	FK	3000–300–477	CPR Conduit Stud	6
ER	2035–233–64	Quick Drop Rel. Brkt., Lt.	1	FL	3000–300–478	CPR Conduit Clamp	6
ES	2035–233–65	Quick Drop Rel. Brkt., Rt.	1	FM	3001–200–228	Mounting Standoff	2
ET	2035–400–565	Siderail Guide Bracket	2	FN	3001–300–8	Thigh Bumper	4
EU	(page 10–47)	Actuator Box Cover Ass'y	1	FP	3001–300–99	Flange Bearing	10
EW	2040–90–5	500 Pound Label	2	FR	3001–300–603	CPR Release Label	2
EX	3000–300–58	Switch Plunger	2	FS	3001–300–663	Velcro Strip	10
EY	3000–300–99	Modified Bushing	10	FT	3001–300–877	Siderail Extension Cable	1
EZ	3000–300–115	Standoff	4	FU	(see page 9–1)	CPU Assembly	1
FA	3000–300–349	Head/Foot Board Post Cap	4	FW	5000–30–366	Fowler Nut Adapter	1
FB	3000–300–353	Roller	8	FX	5010–80–7	Power Supply Gd. Cable	1
FC	3000–300–442	Fowler Drive Grommet	16	FY	8800–380–000	Neoprene Sponge	1.5'
FD	3000–300–455	CPR Isolation Bushing	4	FZ	8815–001–100	Wire Mount Clip	4

2030–32–10 Epic/Epic+ Litter Components

Item	Part No.	Part Name	Qty.	Item	Part No.	Part Name	Qty.
HA	3–347	Hex Hd. Cap Screw	8	HL	25–50	Rivet	24
HB	4–338	Flanged But. Hd. Screw	4	HM	30–27	Strain Grommet	2
HC	5–29	Rd. Hd. Sq. Neck Bolt	4	HN	30–47	Right Angle Strain Relief	1
HD	7–58	Truss Hd. Torx	1	HP	59–106	Strain Relief	1
HE	11–4	Washer	16	HR	2030–31–801	Foot Pot. Exten. Cable	1
HF	11–63	Washer	8	HU	2030–31–802	Head Pot. Exten. Cable	1
HG	13–10	Ext. Tooth Lock Washer	1	HW	2030–31–803	Head Lift Motor Extension	1
HH	13–32	Ext. Tooth Lock Washer	4	HX	2040–31–56	Foley Bag Hanger	6
HJ	16–6	Kep Nut	9	HY	3001–300–4	Spacer	8
HK	16–35	Nylock Nut	8				

2040–32–20 Zoom/Epic/Epic+ Std. Height Option

Item	Part No.	Part Name	Qty.
HS	2030–331–52	Head End Header Wldmt.	1
HT	2030–331–53	Foot End Header Wldmt.	1

2040–32–21 Zoom/Epic/Epic+ Enh. Height Option

Item	Part No.	Part Name	Qty.
HS	2040–31–252	Head End Header Wldmt.	1
HT	2040–31–253	Foot End Header Wldmt.	1

2040–32–11 Epic+/Zoom Litter Components

Item	Part No.	Part Name	Qty.	Item	Part No.	Part Name	Qty.
KA	7–58	Truss Hd. Torx	1	KE	3000–300–2	Plastic Clip Nut	3
KB	13–10	Ext. Tooth Lock Washer	2	KF	2040–31–100	Manual Push Label	1
KC	16–28	Nylock Nut	1	KG	59–194	Split Ferrite	3
KD	2040–231–806	Bed CPU Cable	1	KH	59–738	Hole Plug	2

2040–32–15 Zoom Litter Domestic Components

Item	Part No.	Part Name	Qty.
NA	59–178	Circuit Breaker	2
ND	2040–31–98	Specification Label	1
NE	2035–300–705	Fowler Drive Assembly	2

Litter Assembly and Options

2030–30–100 No Scale or Bed Exit Options

Item	Part No.	Part Name	Qty.
	(page 10–80)	Foot Board, No Scale/BE	1
OF	3001–300–511	"Imitation" Load Cell	4

2030–30–125 Scale Option Only

Item	Part No.	Part Name	Qty.
OA	13–32	Ext. Tooth Lock Washer	4
	(page 10–81)	Foot Board, Scale Option	1
OC	2035–31–805	Load Cell Cable, Head	2
OD	2035–31–804	Load Cell Cable, Foot	2
OE	3001–300–7	M/F Screw	8
OF	3001–307–57	Load Cell	4

2030–30–175 Chaperone™ Bed Exit Option

Item	Part No.	Part Name	Qty.
OA	13–32	Ext. Tooth Lock Washer	4
	(page 10–82)	Ft. Bd., Chaperone Option	1
OC	2035–31–805	Load Cell Cable, Head	2
OD	2035–31–804	Load Cell Cable, Foot	2
OE	3001–300–7	M/F Screw	8
OF	3001–307–57	Load Cell	4

2030–30–150 Scale & Chaperone™ Options

Item	Part No.	Part Name	Qty.
OA	13–32	Ext. Tooth Lock Washer	4
	(page 10–84)	Ft. Bd., Scale & Chap.	1
OC	2035–31–805	Load Cell Cable, Head	2
OD	2035–31–804	Load Cell Cable, Foot	2
OE	3001–300–7	M/F Screw	8
OF	3001–307–57	Load Cell	4

2030–30–275 Chaperone II™ Bed Exit Option

Item	Part No.	Part Name	Qty.
OA	13–32	Ext. Tooth Lock Washer	4
	(page 10–83)	Ft. Bd., Chap. II Option	1
OC	2035–31–805	Load Cell Cable, Head	2
OD	2035–31–804	Load Cell Cable, Foot	2
OE	3001–300–7	M/F Screw	8
OF	3001–307–57	Load Cell	4

2030–30–250 Scale & Chaperone II™ B. E. Options

Item	Part No.	Part Name	Qty.
OA	13–32	Ext. Tooth Lock Washer	4
	(page 10–85)	Foot Board, Scale & BE	1
OC	2035–31–805	Load Cell Cable, Head	2
OD	2035–31–804	Load Cell Cable, Foot	2
OE	3001–300–7	M/F Screw	8
OF	3001–307–57	Load Cell	4

2030–30–151 Low–Sounding Beeper Option

Item	Part No.	Part Name	Qty.
PA	3001–508–869	Low–Sound Beeper Cable	1

2030–30–251 High–Sounding Beeper Option

Item	Part No.	Part Name	Qty.
PA	3001–508–870	High–Sound Beeper Cable	1

2035–30–207 Smart TV Option

Item	Part No.	Part Name	Qty.
UA	59–176	Jack Screw	2
UB	2035–232–806	STV Option Control Cable	1
UC	3001–330–970	STV Comm. Board	1

Litter Assembly and Options

2040–30–200 Head Wall Communication Option

Item	Part No.	Part Name	Qty.
SG	59–175	Head Wall Interface Cable	1
SH	59–710	Static Cap	1
	2040–31–200	Zoom Hd. Wall w/Comm.	1

2040–30–201 Head Wall Comm. w/Nurse Call

Item	Part No.	Part Name	Qty.
SA	1–87	Flat Hd. Mach. Screw	2
SF	52–783	U Clip	2
SG	59–175	Head Wall Interface Cable	1
SH	59–710	Static Cap	1
	2040–31–201	Zoom Hd. Wall w/NC	1
SK	3000–303–871	Battery	1
SP	5010–80–20	9V Battery Box w/Cable	1

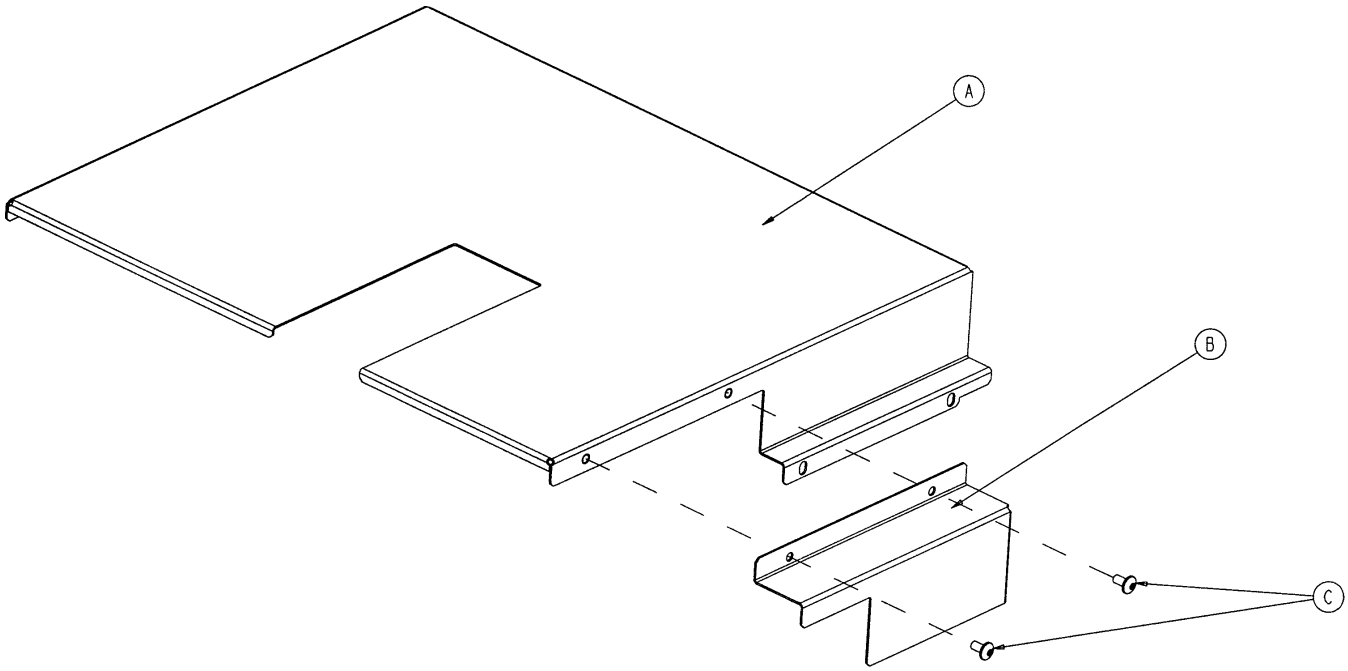
2040–30–202 HW Comm. w/NC & 1 Stryker Port

Item	Part No.	Part Name	Qty.
SA	1–87	Flat Hd. Mach. Screw	2
SE	30–27	Strain Relief Grommet	1
SF	52–783	U Clip	2
SG	59–175	Head Wall Interface Cable	1
SH	59–710	Static Cap	1
	2040–31–202	Zoom HW w/NC & 1 Port	1
SK	3000–303–871	Battery	1
SP	5010–80–20	9V Battery Box w/Cable	1
SR	2035–30–804	Pendant Port Cable	1

2040–30–203 HW Comm. w/NC & 2 Stryker Ports

Item	Part No.	Part Name	Qty.
SA	1–87	Flat Hd. Mach. Screw	2
SE	30–27	Strain Relief Grommet	1
SF	52–783	U Clip	2
SG	59–175	Head Wall Interface Cable	1
SH	59–710	Static Cap	1
SJ	2035–30–805	Dual Pendant Port Cable	1
SK	3000–303–871	Battery	1
SP	5010–80–20	9V Battery Box w/Cable	1
	2040–31–203	Zoom HW w/NC & 2 Ports	1

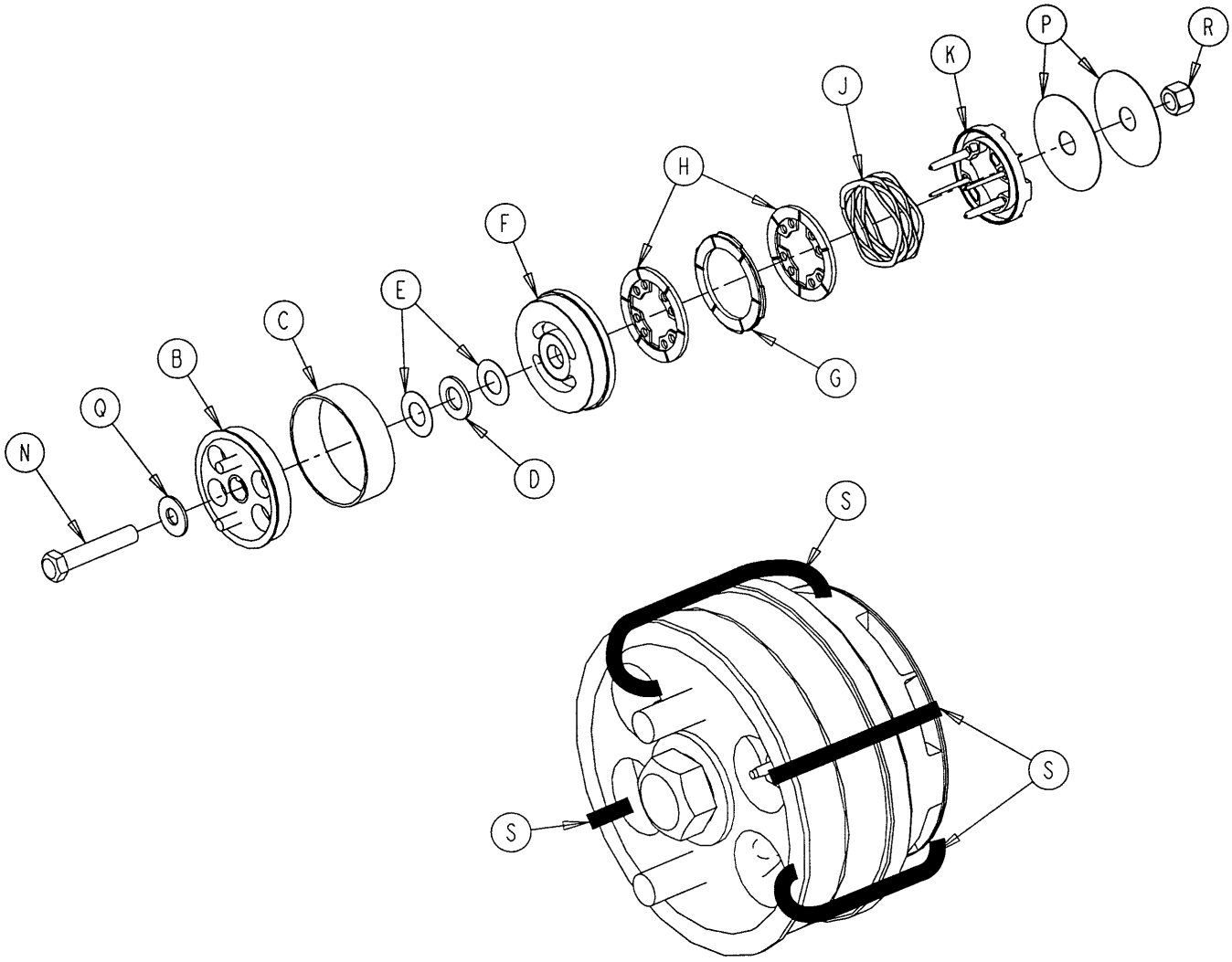
2035–432–75 Actuator Box Cover Assembly



Item	Part No.	Part Name	Qty.
A	2035–332–75	Main Actuator Box Cover	1
B	2035–332–76	Actuator Box Side Cover	1
C	7–58	Truss Hd. Torx	2

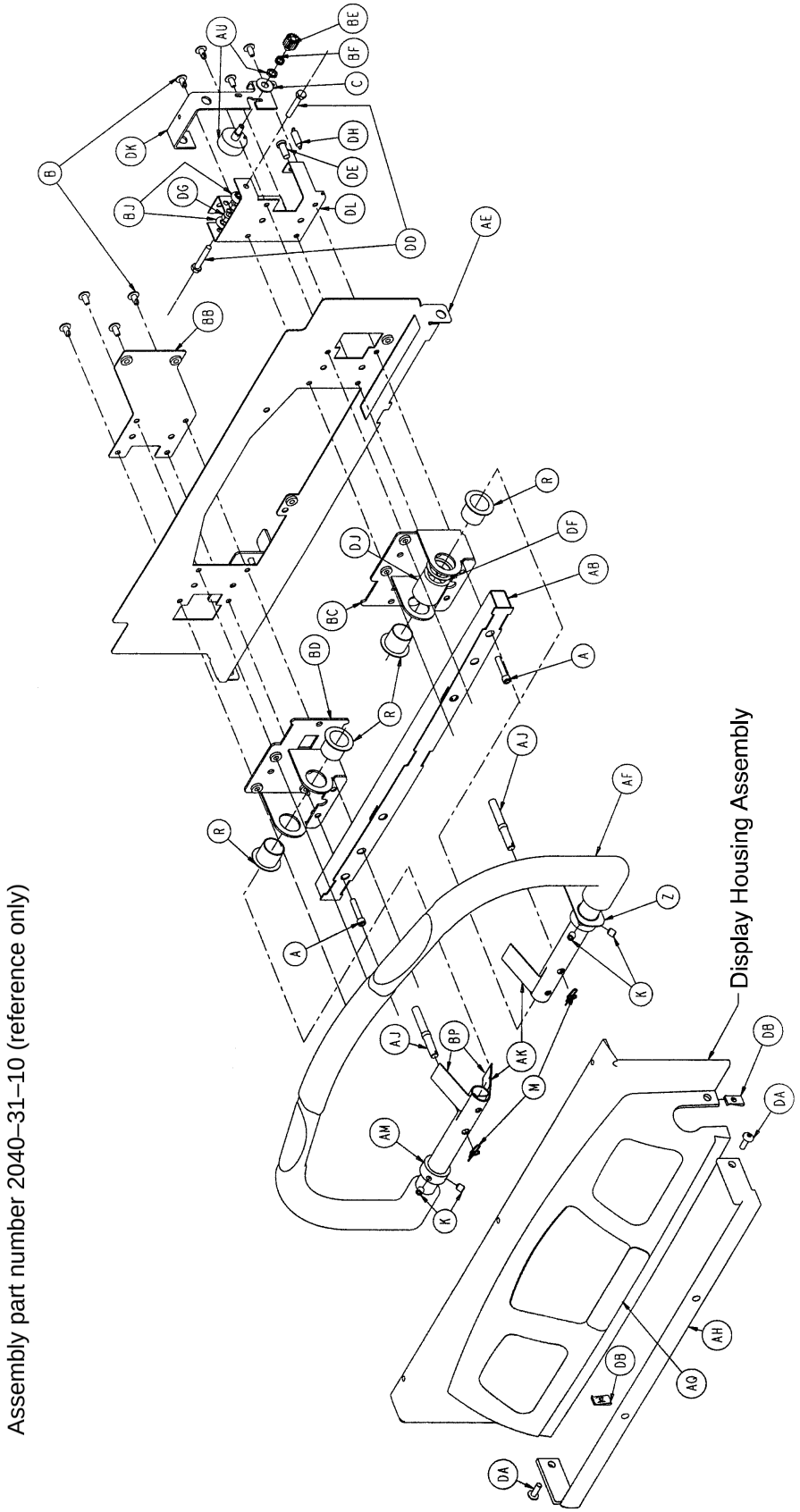
Chapter Ten Assembly Drawings and Parts Lists

3001–300–775 Fowler Brake Kit Assembly



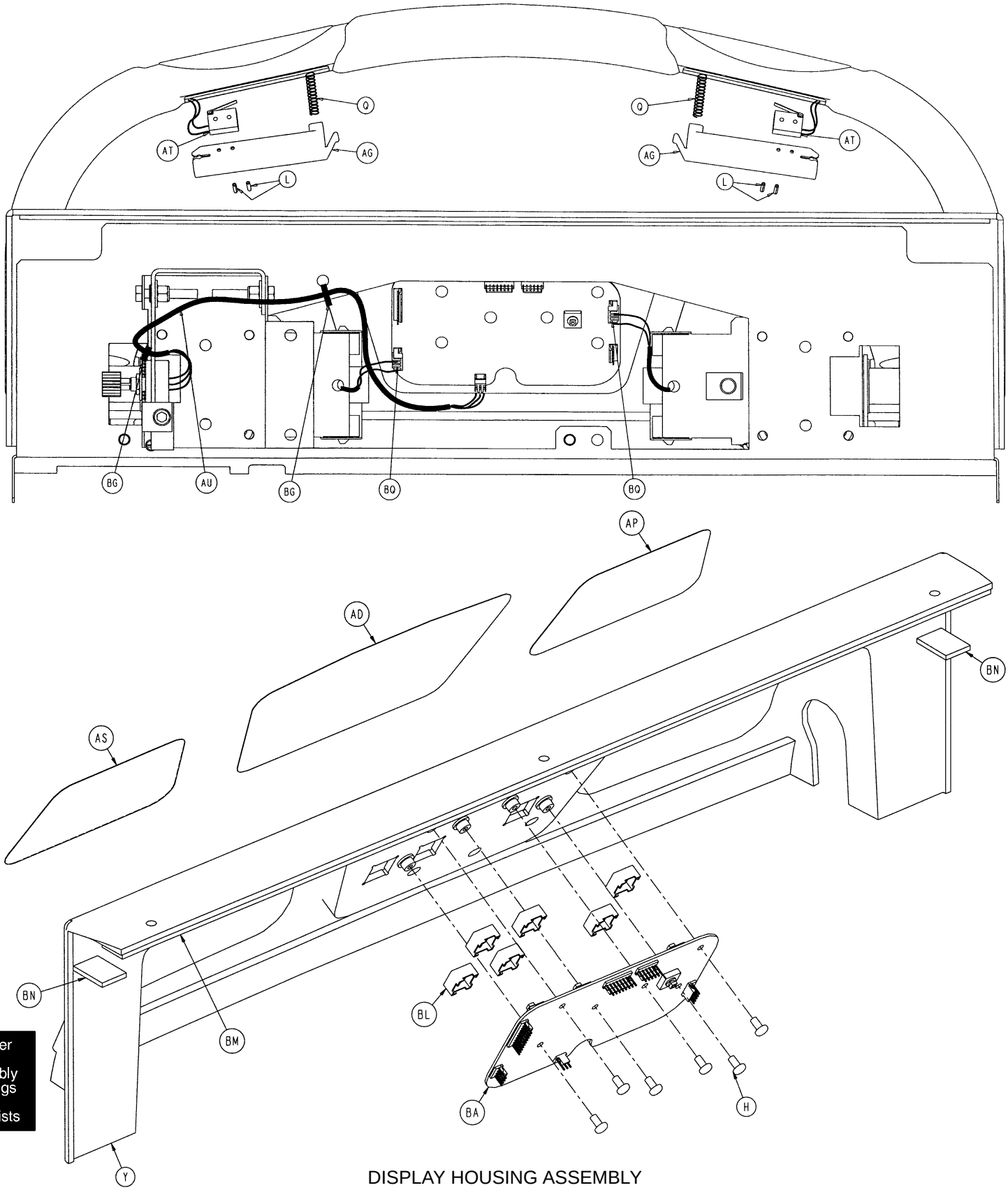
Item	Part No.	Part Name	Qty.
B	3001–300–455	CPR Coupler Assembly	1
C	3000–300–465	CPR Clutch Spring	1
D	3000–200–225	CPR Thrust Bearing	1
E	3000–200–224	Idler Gear Thrust Washer	2
F	3001–300–569	Brake Cup	1
G	3001–300–552	CPR Brake Disc	1
H	3001–300–551	CPR Spring Cup	2
J	3001–300–563	CPR Brake Spring	1
K	3001–300–570	CPR Spring Cup	1
N	3–64	Hex Hd. Cap Screw	1
P	3000–200–245	Flat Washer	2
Q	11–193	Heavy Flat Washer	1
R	16–12	Nylock Nut	1
S	3000–300–113	8” Wire Tie	4

Zoom™ Litter Assembly



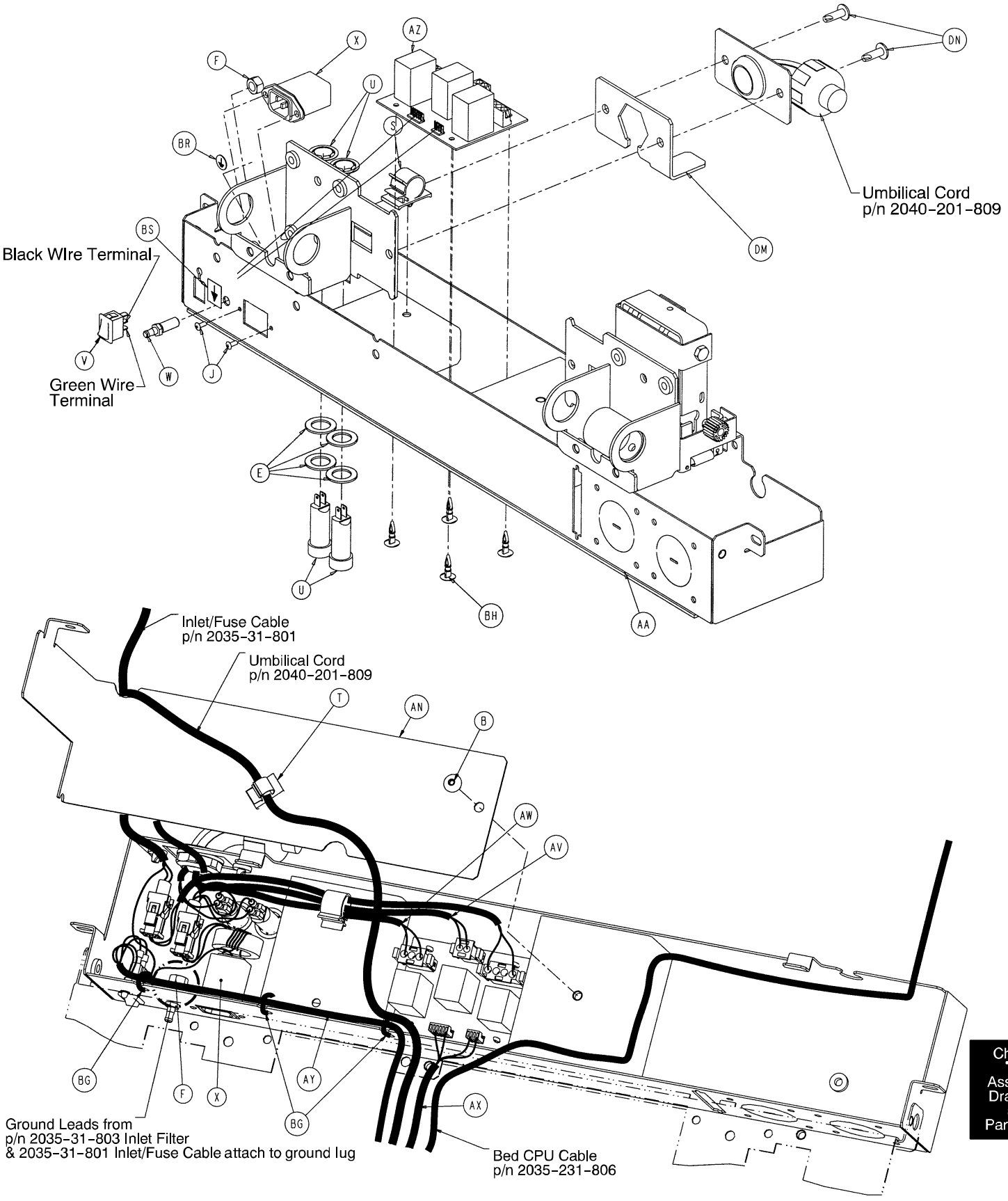
Chapter Ten Assembly Drawings and Parts Lists

Zoom™ Litter Assembly

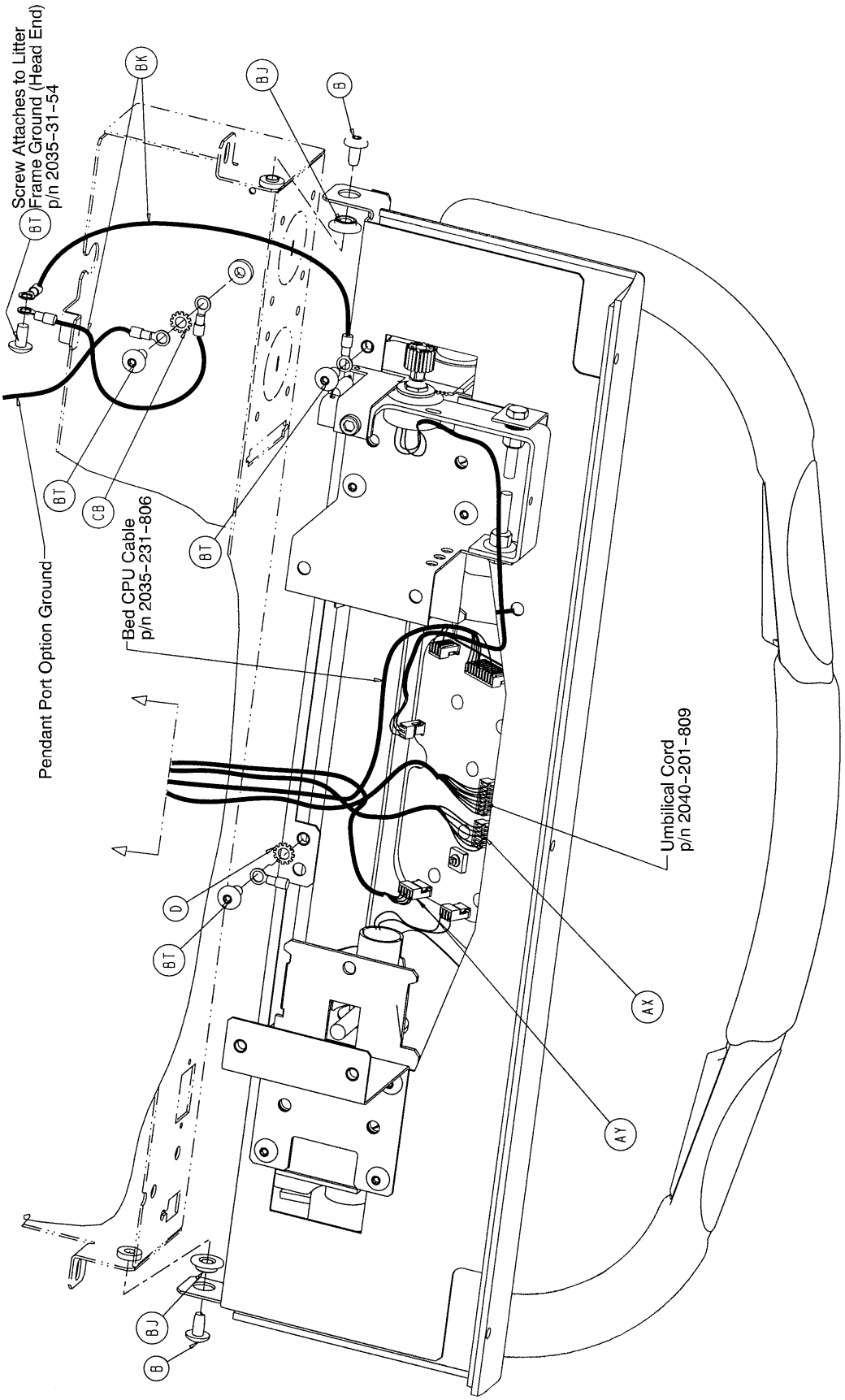


DISPLAY HOUSING ASSEMBLY

Zoom™ Litter Assembly

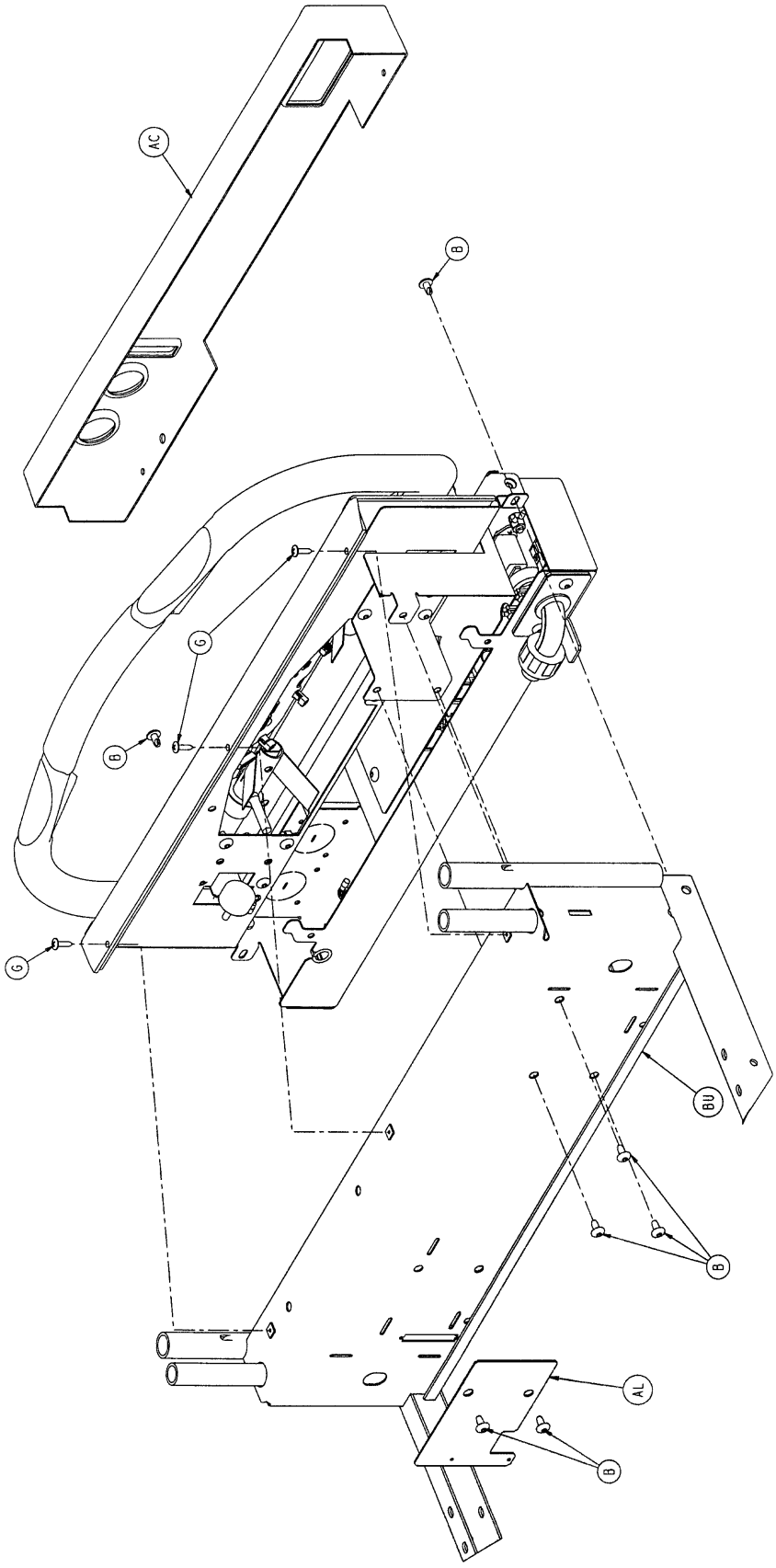


Zoom™ Litter Assembly

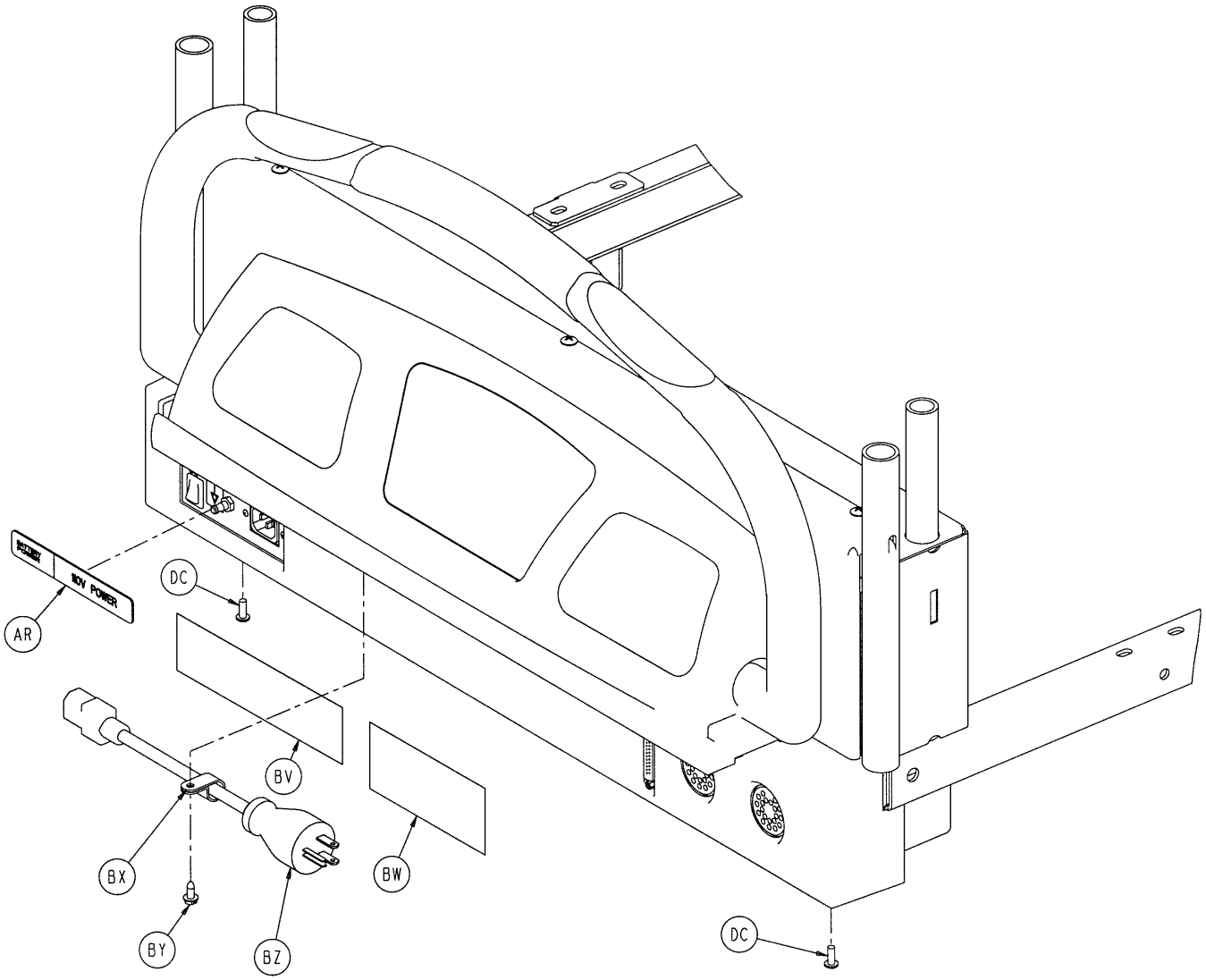


Chapter Ten Assembly Drawings and Parts Lists

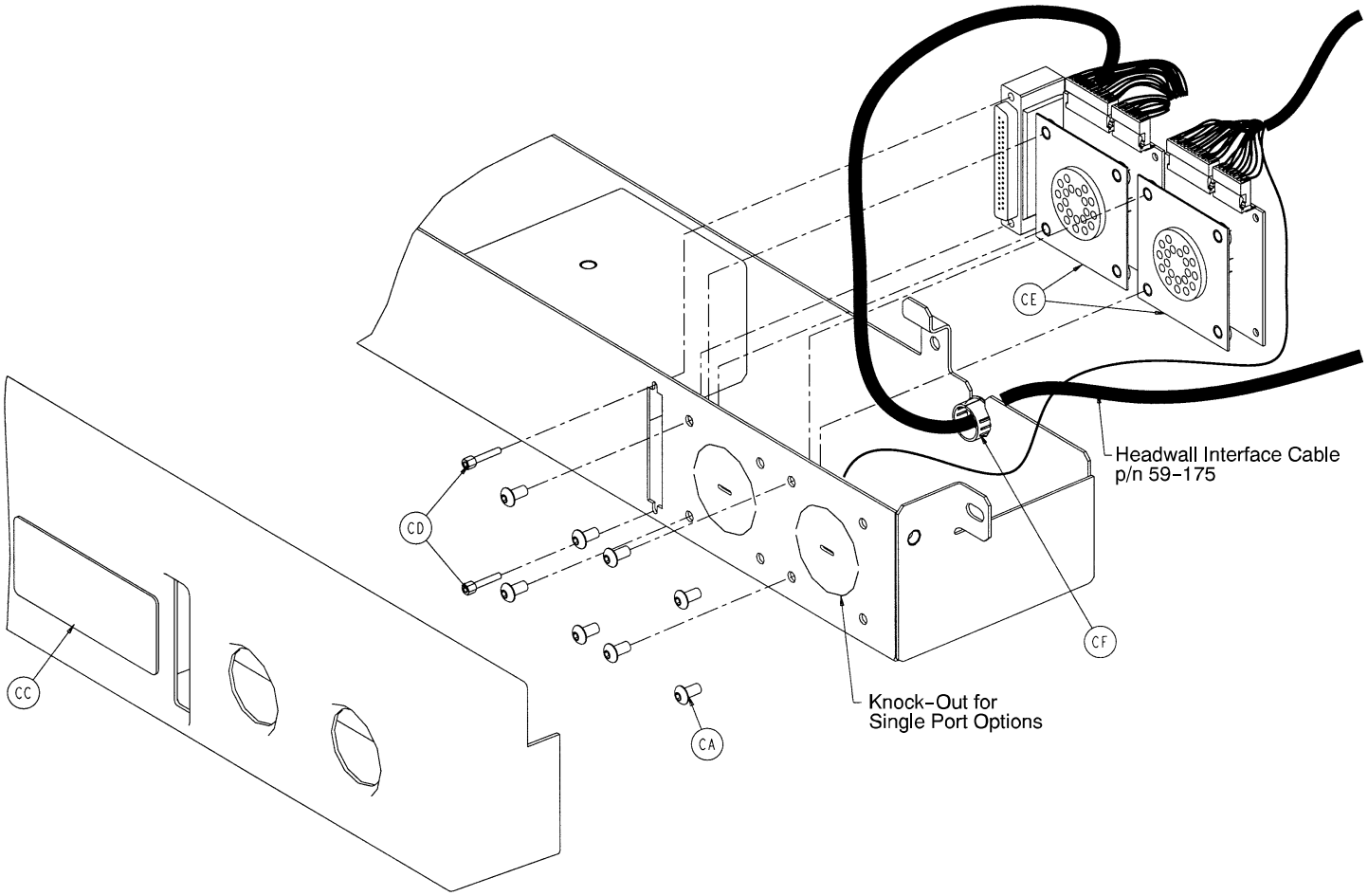
Zoom™ Litter Assembly



Zoom™ Litter Assembly



Zoom™ Litter Assembly



2040–31–200 Head Wall Communication Option

Item	Part No.	Part Name	Qty.
CD	3001–300–7	M/F Screw	2
CF	30–38	Grommet	1

2040–31–201 Head Wall Comm. w/Nurse Call

Item	Part No.	Part Name	Qty.
CD	3001–300–7	M/F Screw	2
CF	30–38	Grommet	1

2040–31–202 HW Comm. w/NC & 1 Stryker Port

Item	Part No.	Part Name	Qty.
CA	4–307	But. Hd. Cap Screw	4
CB	13–10	Ext. Tooth Lock Washer	2
CC	2040–31–104	Cord Out Label	1
CD	3001–300–7	M/F Screw	2
CE	3001–314–920	Head Wall Pend. Port PCB	1
CF	30–38	Grommet	1

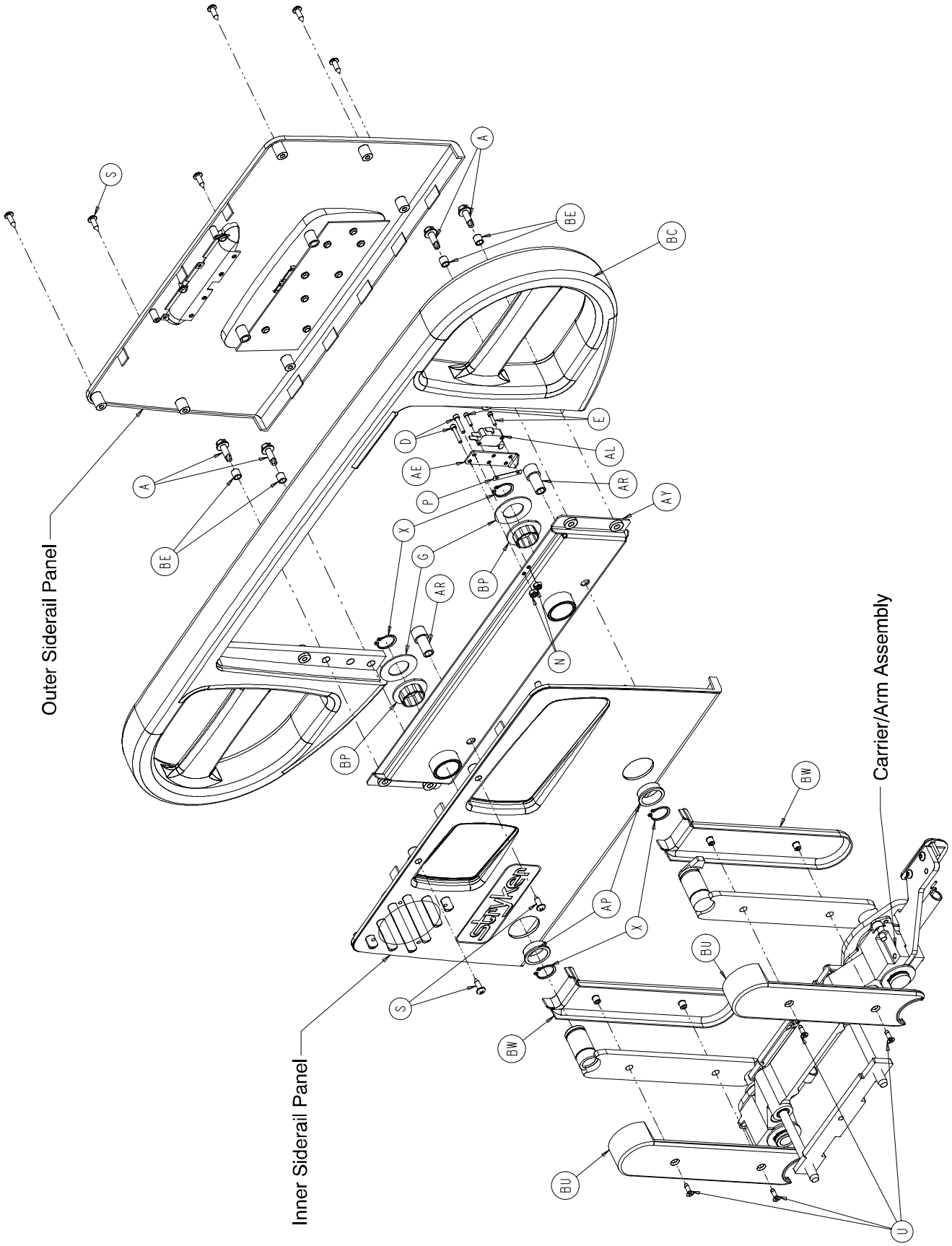
2040–31–203 HW Comm. w/NC & 2 Stryker Ports

Item	Part No.	Part Name	Qty.
CA	4–307	But. Hd. Cap Screw	8
CB	13–10	Ext. Tooth Lock Washer	2
CC	2040–31–104	Cord Out Label	1
CD	3001–300–7	M/F Screw	2
CE	3001–314–920	Head Wall Pend. Port PCB	2
CF	30–38	Grommet	1

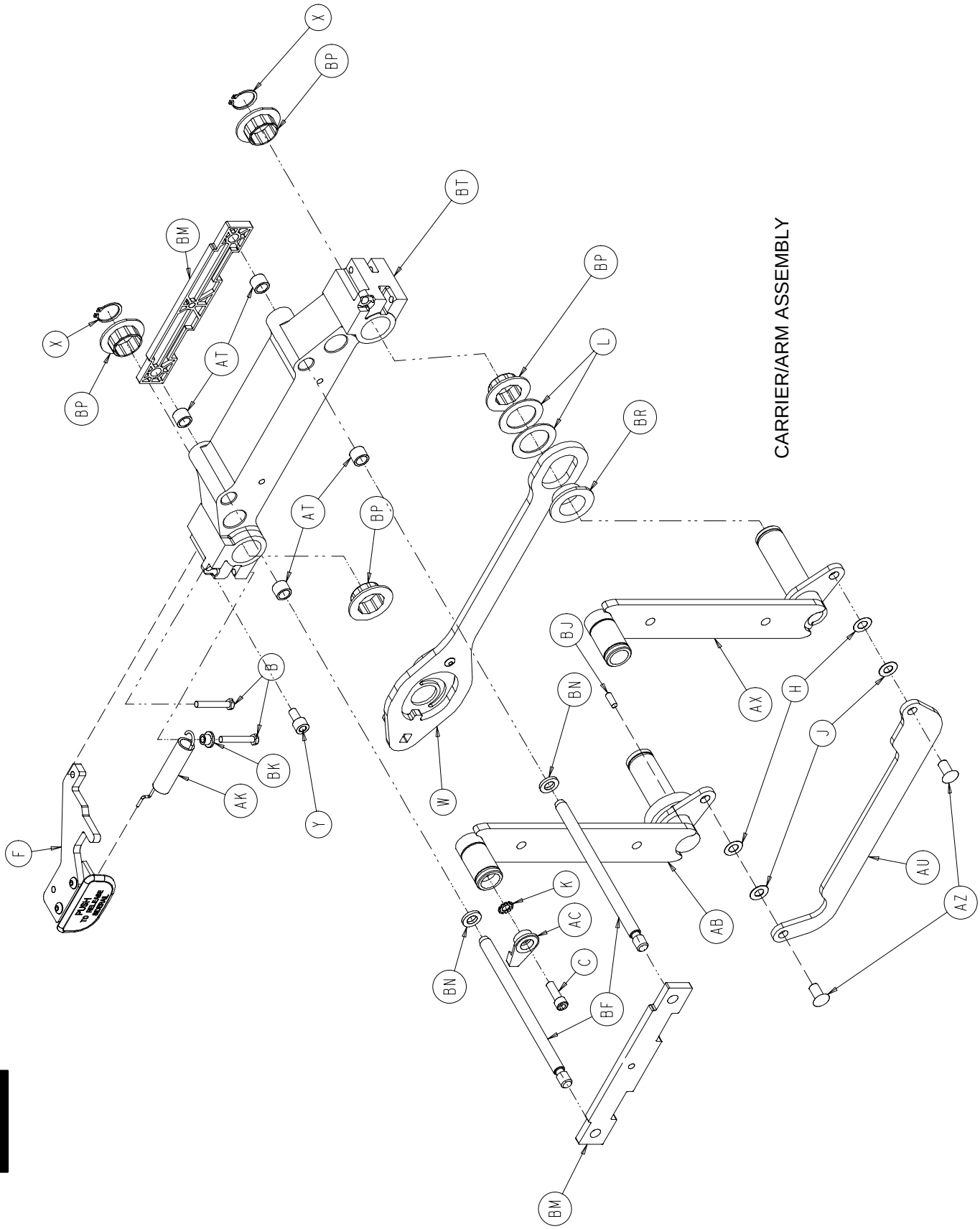
Zoom™ Litter Assembly

Item	Part No.	Part Name	Qty.	Item	Part No.	Part Name	Qty.
A	4–142	Soc. Hd. Cap Screw	2	AW	2040–31–808	Charger AC Jumper	1
B	7–52	Truss Hd. Torx	20	AX	2040–31–809	CPU/Crossover PCB	1
C	11–193	Flat Washer	1	AY	2040–31–810	On/Off Cable	1
D	13–10	Ext. Tooth Lock Washer	5	AZ	2040–31–900	AC/Switchover PCB	1
E	14–40	Washer	4	BA	2040–31–910	Display/CPU PCB	1
F	16–33	Kep Nut	2	BB	2040–231–75	Reinforcement Brkt. Hd.	2
G	23–80	Truss Hd. Screw	3	BC	2040–231–80	Pivot Bracket, Right	1
H	23–112	Hi–Low Tapping Screw	6	BD	2040–231–81	Pivot Bracket, Left	1
J	25–40	Rivet	2	BE	3000–200–215	Pot. Worm Gear	1
K	21–140	Set Screw	4	BF	3000–200–253	Pot. Worm Gear Retainer	1
L	26–303	Roll Pin	4	BG	3000–300–114	Wire Tie	5
M	27–22	Rue Ring Cotter	2	BH	3000–300–115	Standoff	4
Q	38–448	Switch Handle Ret. Spring	2	BJ	3001–300–99	Pivot Bearing	2
R	52–762	Flange Bearing	4	BK	3001–300–870	Ground Strap	2
S	59–133	Push–Mount Wire Clip	1	BL	3001–400–953	Switch Cap	6
T	59–136	Push–Mount Wire Clip	1	BM	8800–380–000	Foam Tape (26.25”)	1
U	59–195	3.0 Amp Circuit Breaker	2	BN	8800–380–000	Foam Tape (1.25”)	2
V	59–191	On/Off Switch	1	BP	44–32	Press. Sens. Tape (1.5”)	4
W	2011–1–215	Grounding Lug	1	BQ	59–781	4–Position Connector	2
X	2035–31–803	Power Inlet Cable	1	BR	36–46	Ground Label	1
Y	2040–31–11	Top Display Housing	1	BS	36–115	Ground Label	1
Z	2040–31–51	Pot. Collar Weldment	1	BT	7–58	Truss Hd. Torx	4
AA	2040–31–53	Hd. End Bottom Encl.	1	BU	7000–1–326	Foam Tape (26.75”)	1
AB	2040–31–54	Bumper Attachment Wldmt.	1	BV	1550–90–1	Hosp. Grade Plug Label	1
AC	2040–31–61	Bottom Display Housing	1	BW	2011–1–104	Anesthetics Danger Label	1
AD	2040–31–62	Display Label	1	BX	34–22	Cord Clamp	1
AE	2040–31–63	Hd. End Top Enclosure	1	BY	23–25	Hex Washer Hd. Screw	1
AF	2040–231–64	Control Bar	1	BZ	39–254	Power Cord	1
AG	2040–31–68	Handle Switch	2	DA	7–56	Truss Hd. Torx	2
AH	2040–231–69	Display Bumper	1	DB	55–27	“U” Type Nut	2
AJ	2040–31–73	Stop Pin	2	DC	8800–233–500	P. Hd. Tapping Screw	2
AK	2040–31–74	Control Bar Ret. Spring	2	DD	3–50	Hex Hd. Cap Screw	2
AL	2040–31–77	Cover Plate	1	DE	4–325	Soc. Hd. Cap Screw	1
AM	2040–31–82	Potentiometer Collar	1	DF	7–69	Nylon Washer	1
AN	2040–31–92	Hd. End Electronics Cvr.	1	DG	16–28	Nylock Nut	2
AP	2040–31–101	Drive Instruction Label	1	DH	38–346	Extension Spring	1
AQ	2040–31–102	Drive Warning Label	1	DJ	2040–31–107	Locking collar	1
AR	2040–31–103	Power Label	1	DK	2040–31–108	Potentiometer Mount	1
AS	2040–31–105	Logo Label	1	DL	2040–31–109	Reinforcement Bracket	1
AT	2040–31–803	Contact Switch Cable	1	DM	2040–31–85	Umbilical Cord Supt. Plate	1
AU	2040–31–804	Potentiometer Cable	1	DN	7–65	Truss Hd. Torx	2
AV	2040–31–807	Bed AC Pwr. Jump. Cbl.	1				

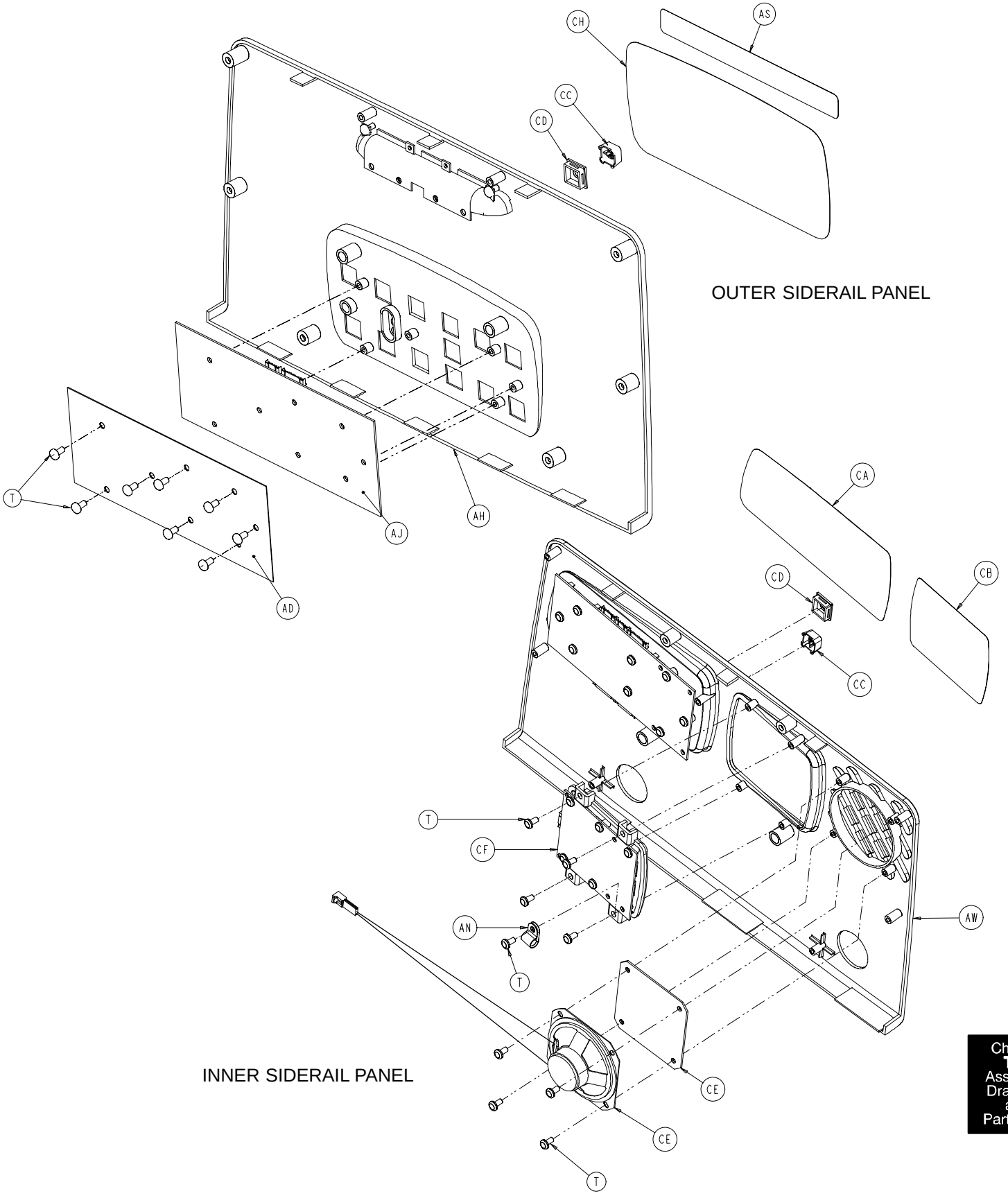
Head End Siderail Assembly, Left and Right



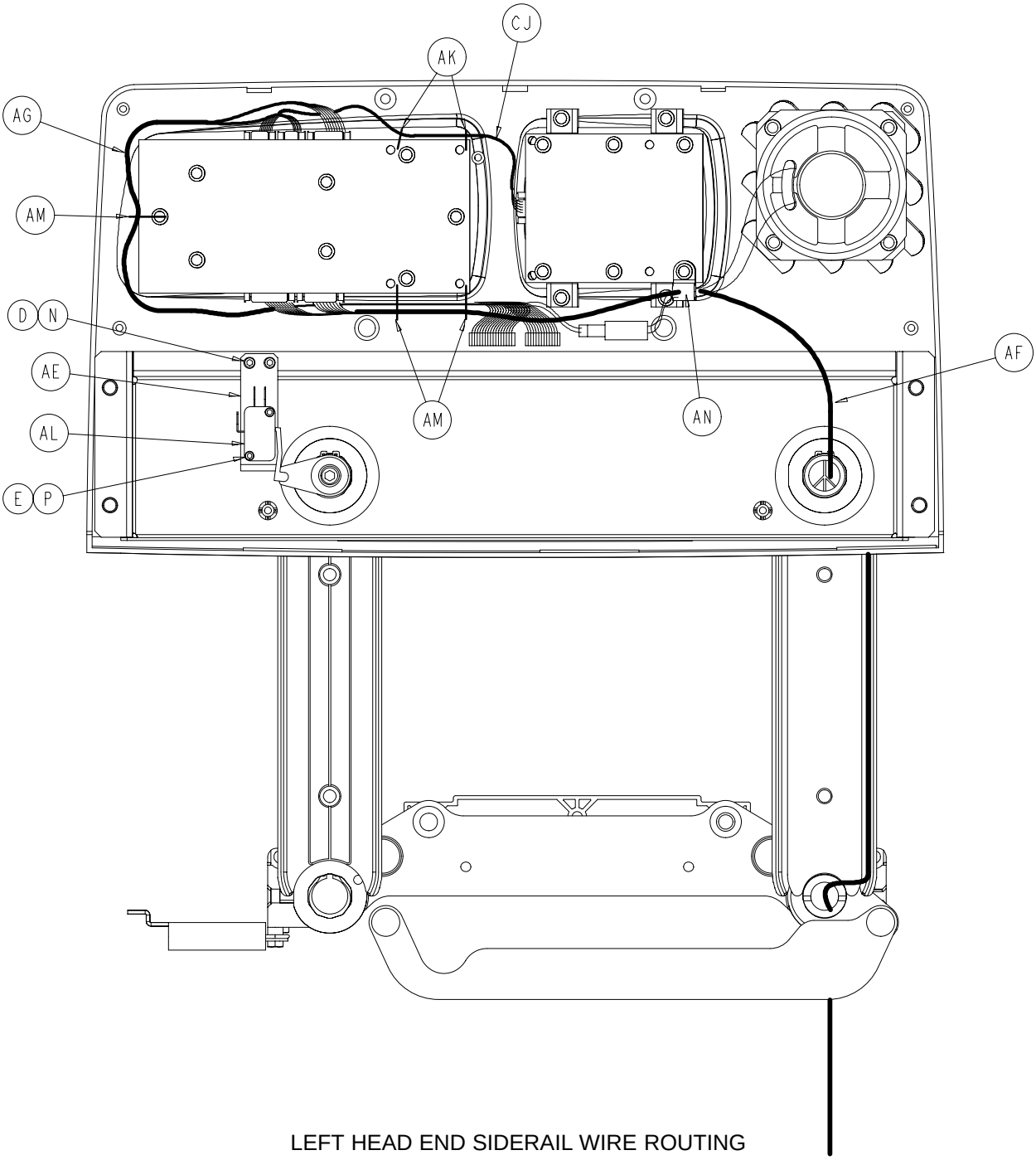
Head End Siderail Assembly, Left and Right



Head End Siderail Assembly, Left and Right

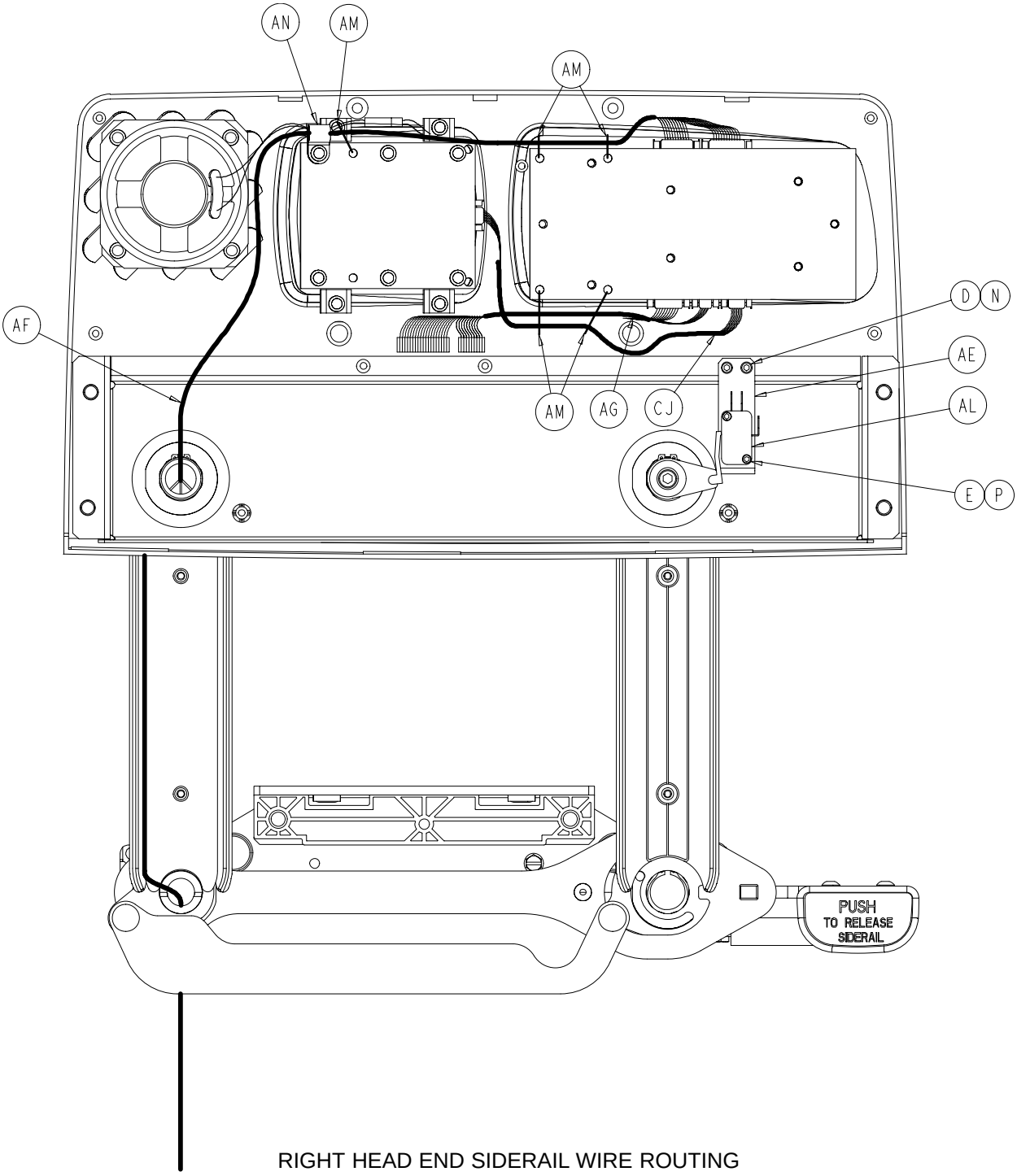


Head End Siderail Assembly, Left and Right



LEFT HEAD END SIDERAIL WIRE ROUTING

Head End Siderail Assembly, Left and Right



RIGHT HEAD END SIDERAIL WIRE ROUTING

Head End Siderail Assembly, Left and Right

2030–400–105 Left Standard Components

Item	Part No.	Part Name	Qty.
A	3–226	Hex Washer Hd. Screw	4
B	3–344	Hex Hd. Screw	2
C	4–9	Soc. Hd. Cap Screw	1
D	4–101	Soc. Hd. Cap Screw	2
E	4–127	Soc. Hd. Cap Screw	2
F	(page 10–76)	Release Lever Ass'y, Left	1
G	11–343	Shim Washer	2
H	11–377	Washer	2
J	11–403	Steel Shim Washer	2
K	13–10	Ext. Tooth Lock Washer	1
L	14–93	Washer	2
N	16–23	Fiberlock Nut	2
P	16–69	Twin Fastener	1
R	23–86	High–Low Tapping Screw	1
S	23–90	High–Low Tapping Screw	8
T	23–112	High–Low Tapping Screw	16
U	23–180	Fl. Hd. High–Low Tap. Scr.	4
W	(page 10–65)	Latch Ass'y, Head, Left	1
X	28–128	Retaining Ring	6
Y	(page 10–67)	Detent Clip Assembly	1
AB	2030–400–127	Arm Wldmt., Lt., Hd., Ft.	1
AC	2035–20–60	Limit Switch Cam	1
AD	2035–20–61	Insulation Card	1
AE	2035–20–62	Limit Switch Bracket	1
AF	2035–20–802	Siderail Cable	1
AG	2035–20–804	Main Outside Cable, Lt.	1
AH	(page 10–68)	Outer Panel Assembly	1
AJ	2035–400–900	Outside Circuit Board	1
AK	3000–200–334	Release Lever Spring	1
AL	3000–300–41	Micro Switch	1
AM	3000–300–114	Cable Tie	5
AN	3000–300–478	CPR Conduit Clamp	1
AP	3000–400–513	Wear Bushing	2
AR	3000–400–523	Panel Spacer	2
AS	3000–400–556	Warning Label	1
AT	3000–400–557	Sleeve Bearing	4
AU	3001–400–11	Head End Timing Link	1
AW	(page 10–69)	Inner Panel Assembly, Lt.	1
AX	3001–400–128	Arm Wldmt., Lt., Hd., Hd.	1
AY	3001–400–130	Supt. Wldmt., Head, Left	1
AZ	3001–400–501	Linkage Rivet	2
BC	3001–400–515	Head Rail	1
BD	3001–400–555	Mounting Bracket	1
BE	3001–400–558	SIderail Spacer	4
BF	3001–400–564	Glide Rod	2
BJ	3002–400–505	Bypass Pin	1
BM	3002–400–511	Glide Rod Bumper Pad	2
BN	3002–400–512	Bumper Washer	2
BP	3002–400–513	Pivot Bushing	6
BR	3002–400–519	Latch Bushing	1
BT	3002–400–528	Carrier	1
BU	5000–20–5	Inner Arm Cover	2
BW	5000–20–6	Outer Arm Cover	2

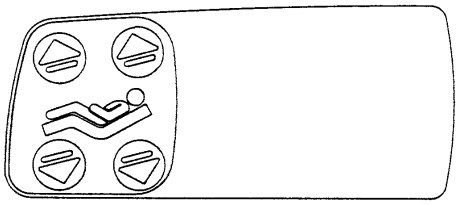
2030–400–205 Right Standard Components

Item	Part No.	Part Name	Qty.
A	3–226	Hex Washer Hd. Screw	4
B	3–344	Hex Hd. Screw	2
C	4–9	Soc. Hd. Cap Screw	1
D	4–101	Soc. Hd. Cap Screw	2
E	4–127	Soc. Hd. Cap Screw	2
F	(page 10–77)	Release Lever Ass'y, Right	1
G	11–343	Shim Washer	2
H	11–377	Washer	2
J	11–403	Steel Shim Washer	2
K	13–10	Ext. Tooth Lock Washer	1
L	14–93	Washer	2
N	16–23	Fiberlock Nut	2
P	16–69	Twin Fastener	1
R	23–86	High–Low Tapping Screw	1
S	23–90	High–Low Tapping Screw	8
T	23–112	High–Low Tapping Screw	16
U	23–180	Fl. Hd. High–Low Tap. Scr.	4
W	(page 10–66)	Latch Ass'y, Head, Right	1
X	28–128	Retaining Ring	6
Y	(page 10–67)	Detent Clip Assembly	1
AB	2030–400–227	Arm Wldmt., Rt., Hd., Ft.	1
AC	2035–20–60	Limit Switch Cam	1
AD	2035–20–61	Insulation Card	1
AE	2035–20–62	Limit Switch Bracket	1
AF	2035–20–802	Siderail Cable	1
AG	2035–20–803	Main Outside Cable, Rt.	1
AH	(page 10–68)	Outer Panel Assembly	1
AJ	2035–400–900	Outside Circuit Board	1
AK	3000–200–334	Release Lever Spring	1
AL	3000–300–41	Micro Switch	1
AM	3000–300–114	Cable Tie	5
AN	3000–300–478	CPR Conduit Clamp	1
AP	3000–400–513	Wear Bushing	2
AR	3000–400–523	Panel Spacer	2
AS	3000–400–556	Warning Label	1
AT	3000–400–557	Sleeve Bearing	4
AU	3001–400–11	Head End Timing Link	1
AW	(page 10–69)	Inner Panel Assembly, Rt.	1
AX	3001–400–228	Arm Wldmt., Rt., Hd., Hd.	1
AY	3001–400–230	Supt. Wldmt., Head, Right	1
AZ	3001–400–501	Linkage Rivet	2
BC	3001–400–515	Head Rail	1
BD	3001–400–555	Mounting Bracket	1
BE	3001–400–558	SIderail Spacer	4
BF	3001–400–564	Glide Rod	2
BJ	3002–400–505	Bypass Pin	1
BM	3002–400–511	Glide Rod Bumper Pad	2
BN	3002–400–512	Bumper Washer	2
BP	3002–400–513	Pivot Bushing	6
BR	3002–400–519	Latch Bushing	1
BT	3002–400–528	Carrier	1
BU	5000–20–5	Inner Arm Cover	2
BW	5000–20–6	Outer Arm Cover	2

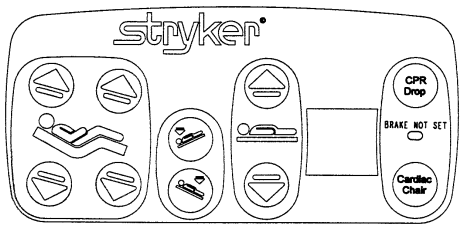
Head End Siderail Assembly, Left and Right

2030–20–11 Standard Siderail

Item	Part No.	Part Name	Qty.
CA	2035–000–100	Label, Standard, Left	1
CA	2035–000–200	Label, Standard, Right	1
CC	3001–400–953	Switch Cap	28
CD	3001–400–522	Filler Cap	18
CE	3001–400–517	Speaker Seal	2
CF	3001–400–535	Inner Panel Blank Module	2
CH	2030–000–300	Label, Standard, Left	1
CH	2030–000–400	Label, Standard, Right	1



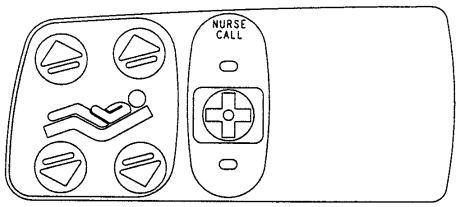
Right Inner Siderail Label



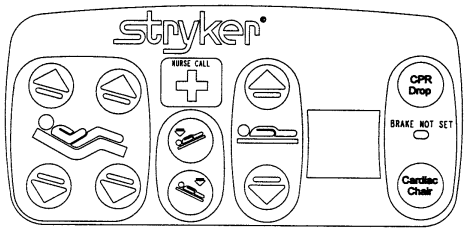
Right Outer Siderail Label

2030–20–12 Standard Siderail with Nurse Call

Item	Part No.	Part Name	Qty.
CA	2035–000–101	Label, Standard, NC, Left	1
CA	2035–000–201	Label, Standard, NC, Right	1
CC	3001–400–953	Switch Cap	32
CD	3001–400–522	Filler Cap	14
CE	3001–403–831	Speaker with Cable	2
CF	3001–400–535	Inner Panel Blank Module	2
CH	2030–000–301	Label, Standard, NC, Left	1
CH	2030–000–401	Label, Standard, NC, Right	1



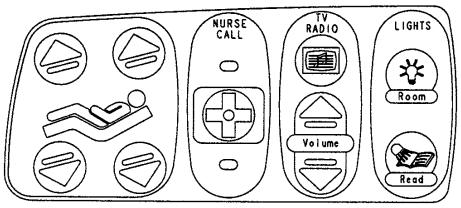
Right Inner Siderail Label



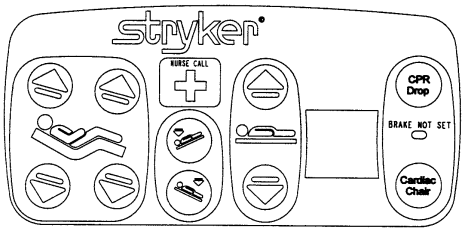
Right Outer Siderail Label

2030–20–15 Standard Siderail w/NC & Comm.

Item	Part No.	Part Name	Qty.
CA	2035–000–102	Label, Standard, Left	1
CA	2035–000–202	Label, Standard, Right	1
CC	3001–400–953	Switch Cap	42
CD	3001–400–522	Filler Cap	4
CE	3001–403–831	Speaker with Cable	2
CF	3001–400–535	Inner Panel Blank Module	2
CH	2030–000–301	Label, Standard, NC, Lt.	1
CH	2030–000–401	Label, Standard, NC, Rt.	1



Right Inner Siderail Label

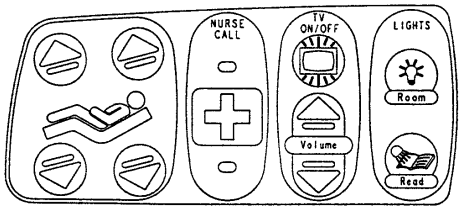


Right Outer Siderail Label

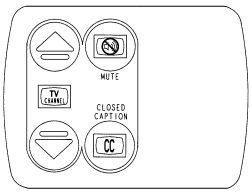
Head End Siderail Assembly, Left and Right

2030–20–21 Std. Siderail w/NC & STV

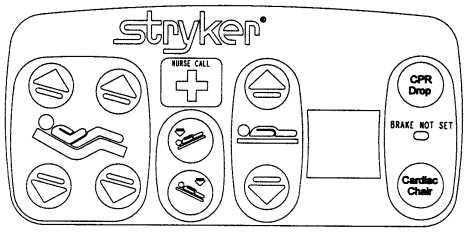
Item	Part No.	Part Name	Qty.
AN	3000–300–114	Cable Tie	3
CA	2035–000–106	Label, Std., NC, STV., Lt.	1
CA	2035–000–206	Label, Std., NC, STV., Rt.	1
CB	2035–000–109	Label, CC & Mute, Left	1
CB	2035–000–209	Label, CC & Mute, Right	1
CC	3001–400–953	Switch Cap	42
CD	3001–400–522	Filler Cap	4
CE	3001–403–831	Speaker with Cable	2
CF	(page 10–70)	STV Module, Left	1
CF	(page 10–71)	STV Module, Right	1
CH	2030–000–301	Label, Standard, NC, Lt.	1
CH	2030–000–401	Label, Standard, NC, Rt.	1
CJ	3001–402–803	Main to Opt. PCB Cable	2



Right Inner Siderail Label



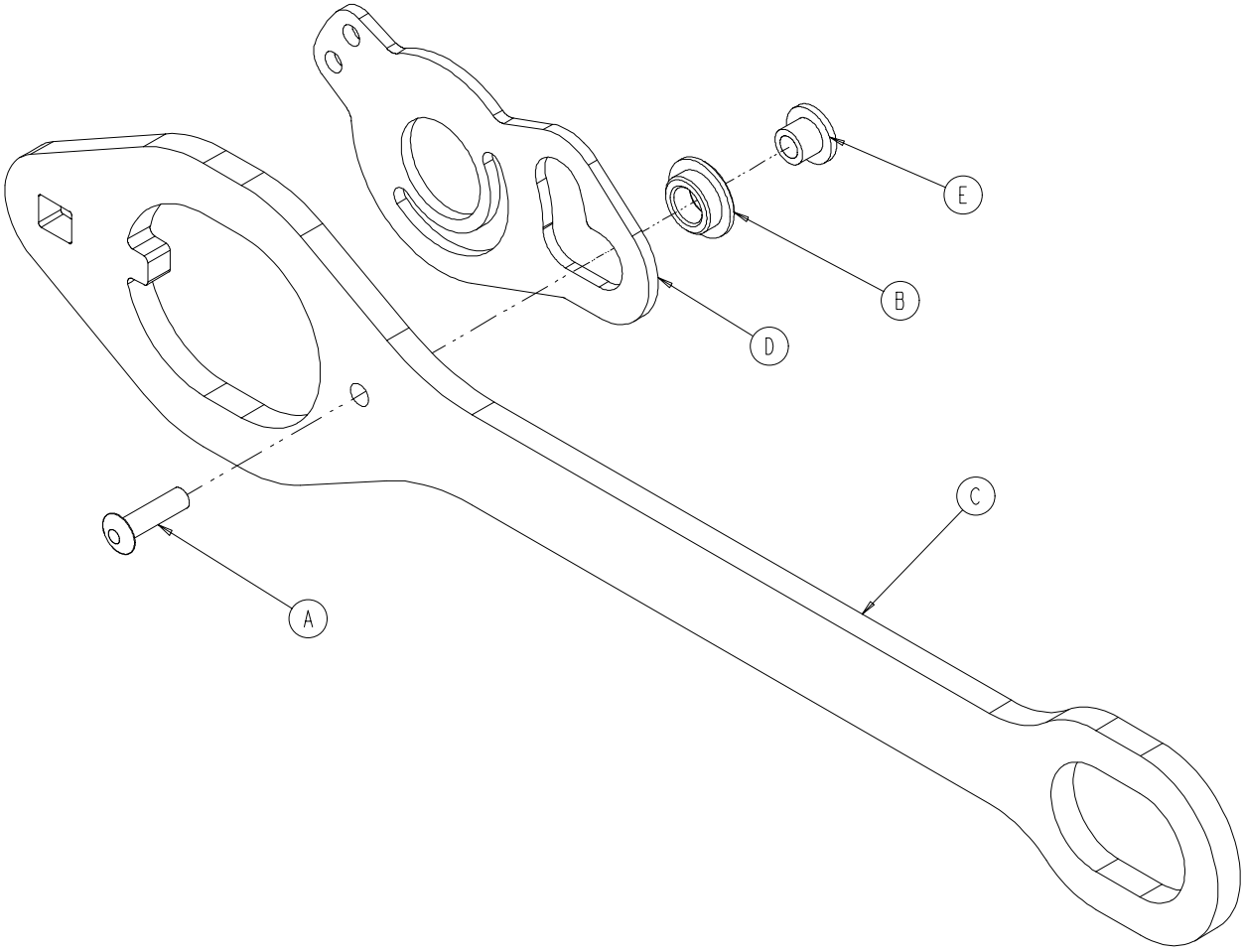
Inner STV Label



Right Outer Siderail Label

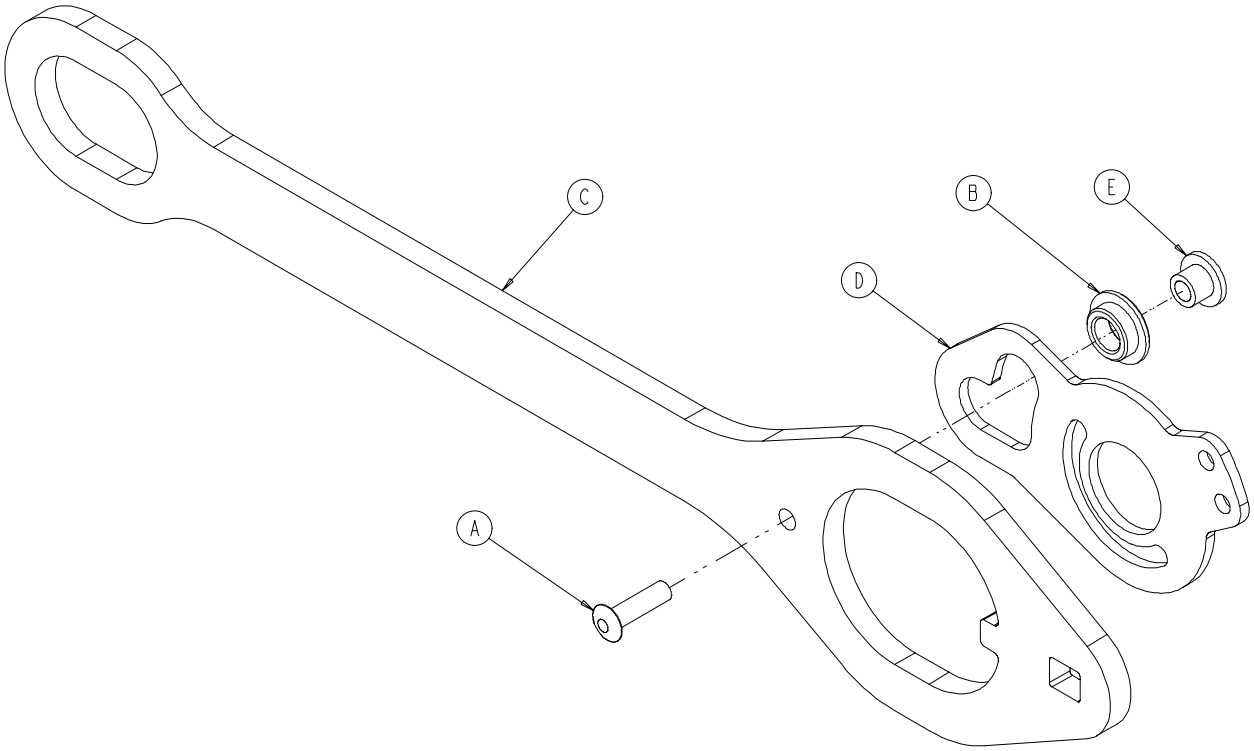
Chapter Ten Assembly Drawings and Parts Lists

3001–400–70 Siderail Latch Assembly, Head End, Left



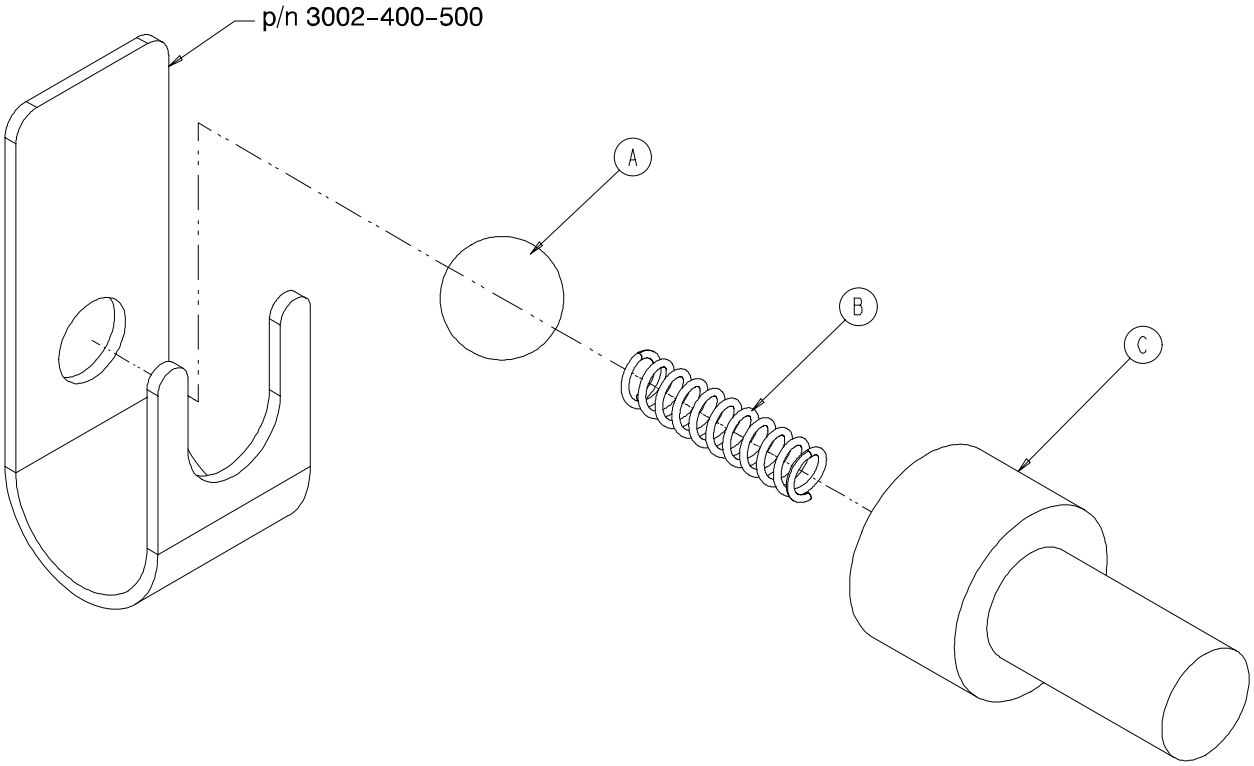
Item	Part No.	Part Name	Qty.
A	26–86	Blind Rivet	1
B	81–317	Bronze Bushing	1
C	3002–400–501	Latch	1
D	3002–400–503	Head End Bypass Plate	1
E	3002–400–509	Bypass Bushing Spacer	1

3002–400–75 Siderail Latch Assembly, Head End, Right



Item	Part No.	Part Name	Qty.
A	26–86	Blind Rivet	1
B	81–317	Bronze Bushing	1
C	3002–400–501	Latch	1
D	3002–400–503	Head End Bypass Plate	1
E	3002–400–509	Bypass Bushing Spacer	1

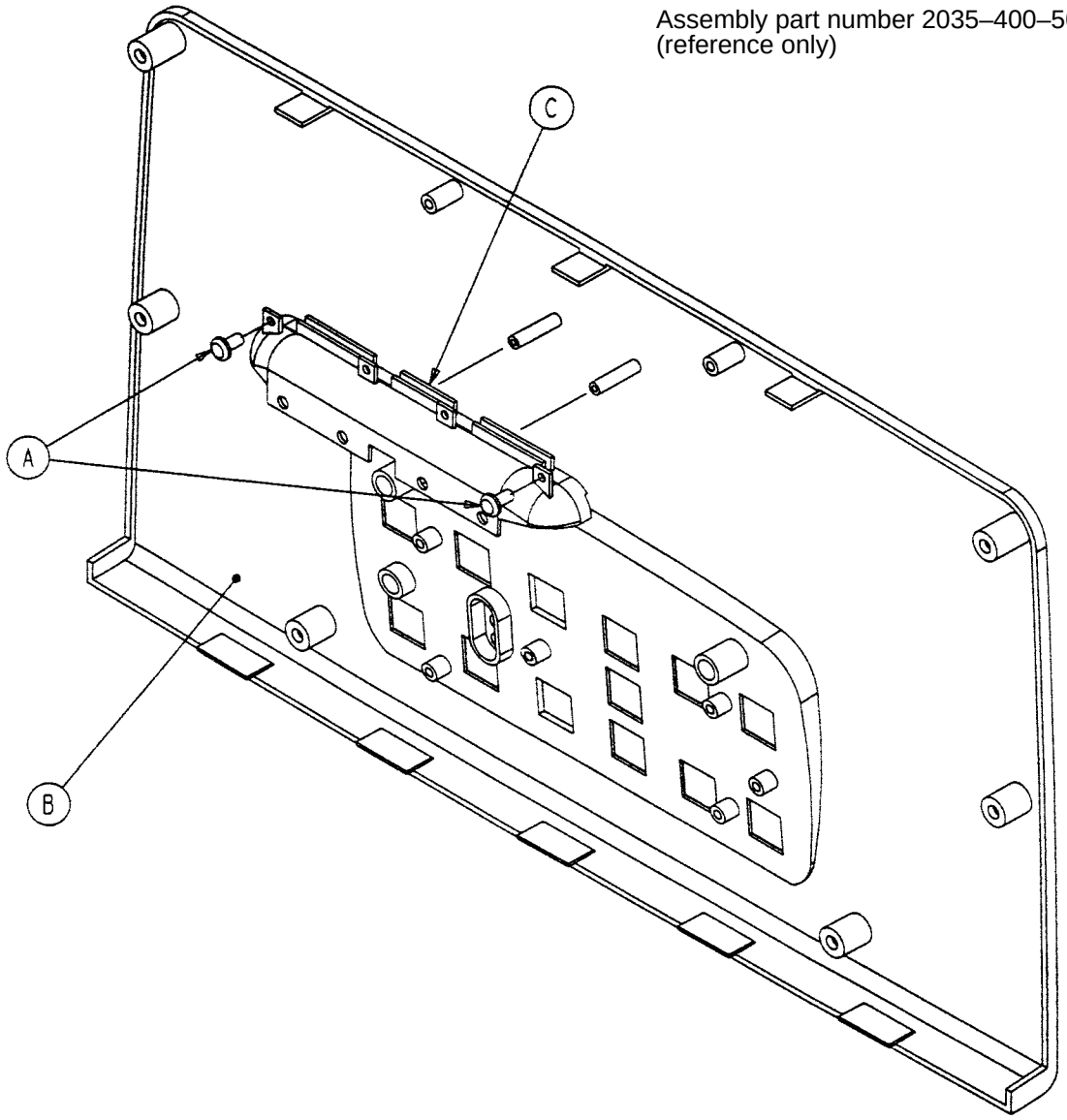
3002–400–90 Siderail Bypass Detent Clip Assembly



Item	Part No.	Part Name	Qty.
A	31–137	Steel Ball	1
B	38–464	Compression Spring	1
C	3002–400–524	Bypass Detent Housing	1

Head End Siderail Outer Panel Assembly

Assembly part number 2035–400–50
(reference only)

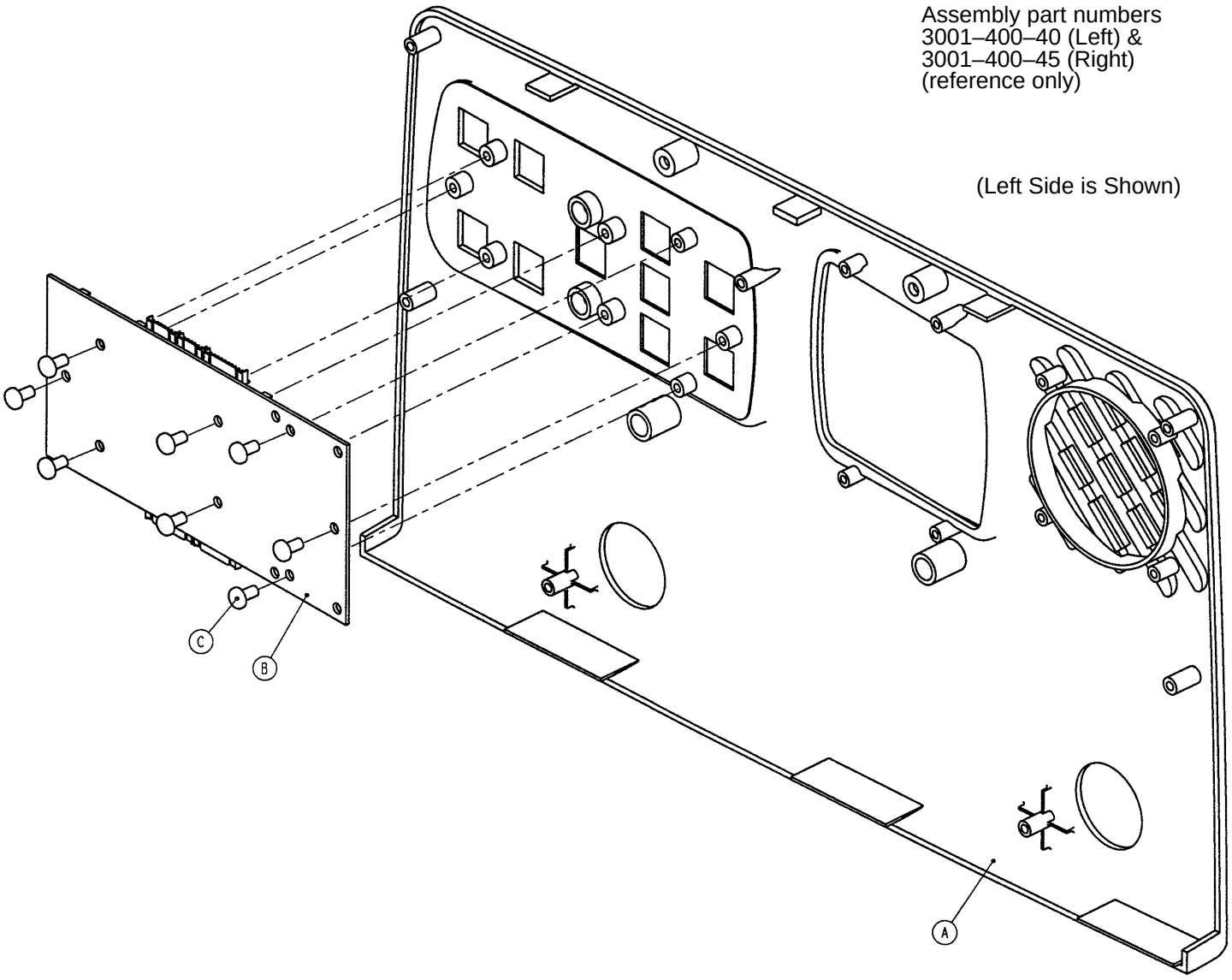


Item	Part No.	Part Name	Qty.
A	23–112	Hi–Low Tapping Screw	2
B	2035–400–102	Outer Panel	1
C	3001–400–599	Handle Insert	1

Head End Siderail Inner Panel Assembly

Assembly part numbers
3001–400–40 (Left) &
3001–400–45 (Right)
(reference only)

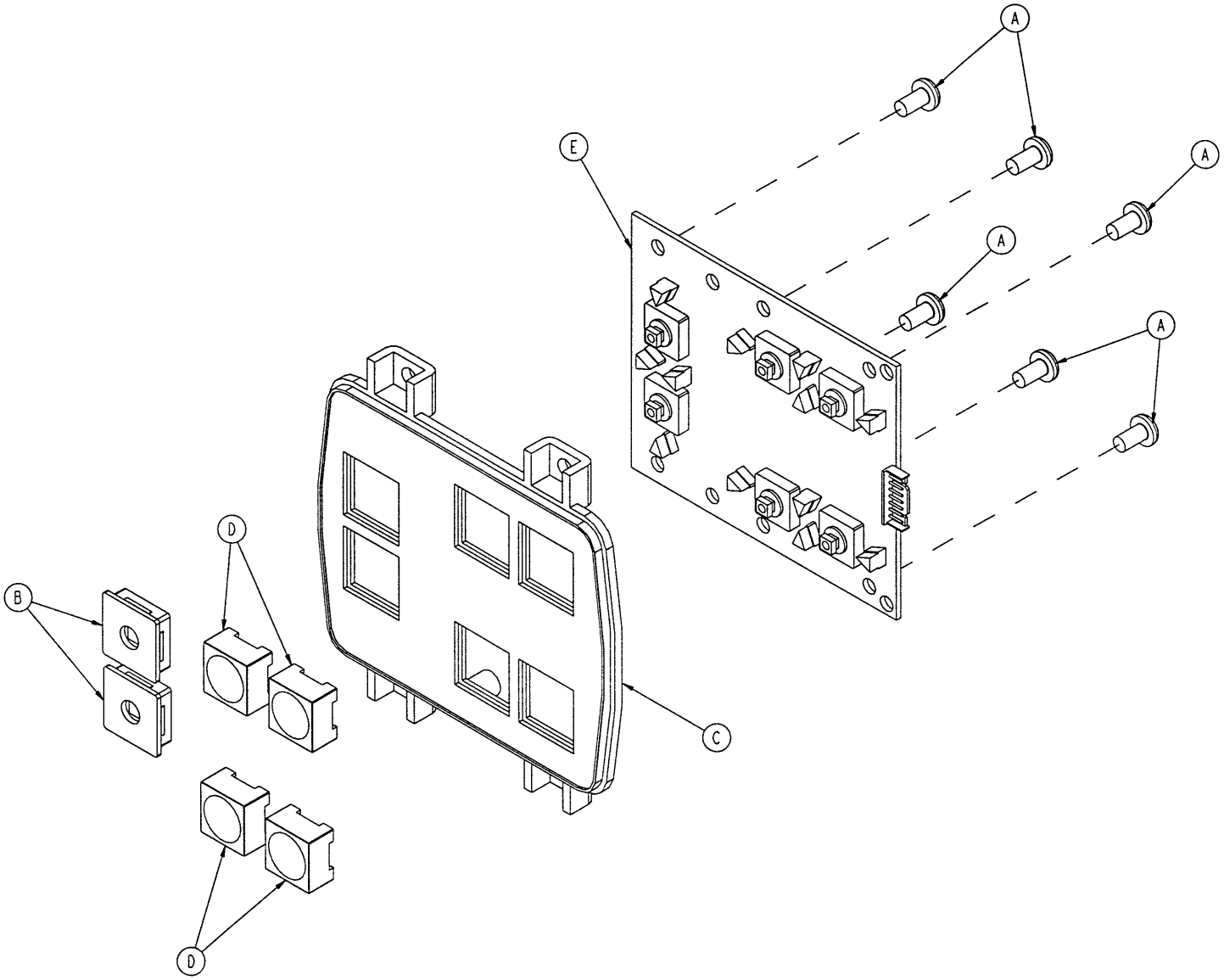
(Left Side is Shown)



Item	Part No.	Part Name	Qty.
A	3001–400–101	Left Inner Panel	1
	3001–400–201	Right Inner Panel	1
B	3001–400–900	Inner Siderail PCB Assembly	1
C	23–112	Hi–Low Tapping Screw	8

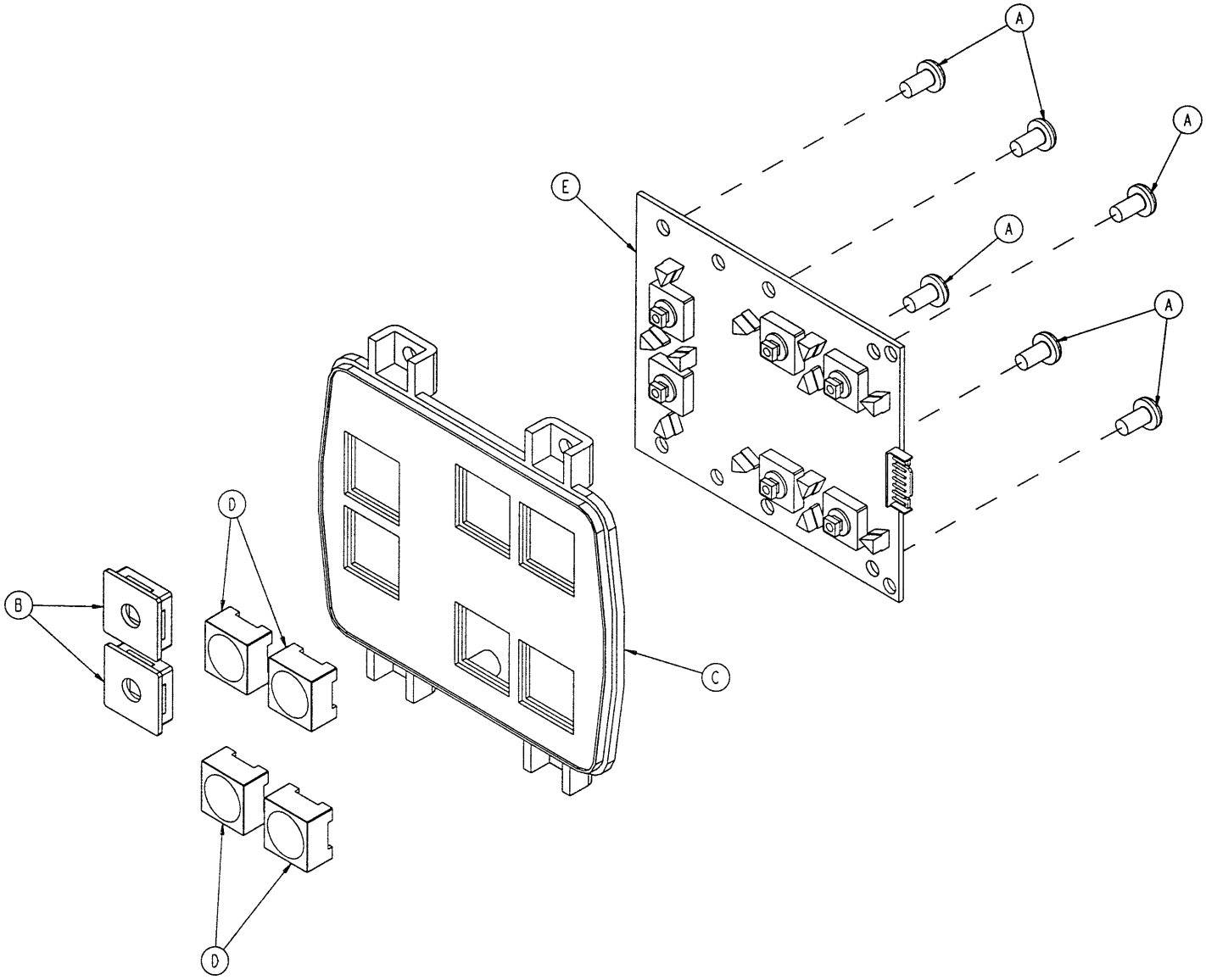
Chapter Ten Assembly Drawings and Parts Lists

2035–400–51 Optional Smart TV Siderail Module, Left



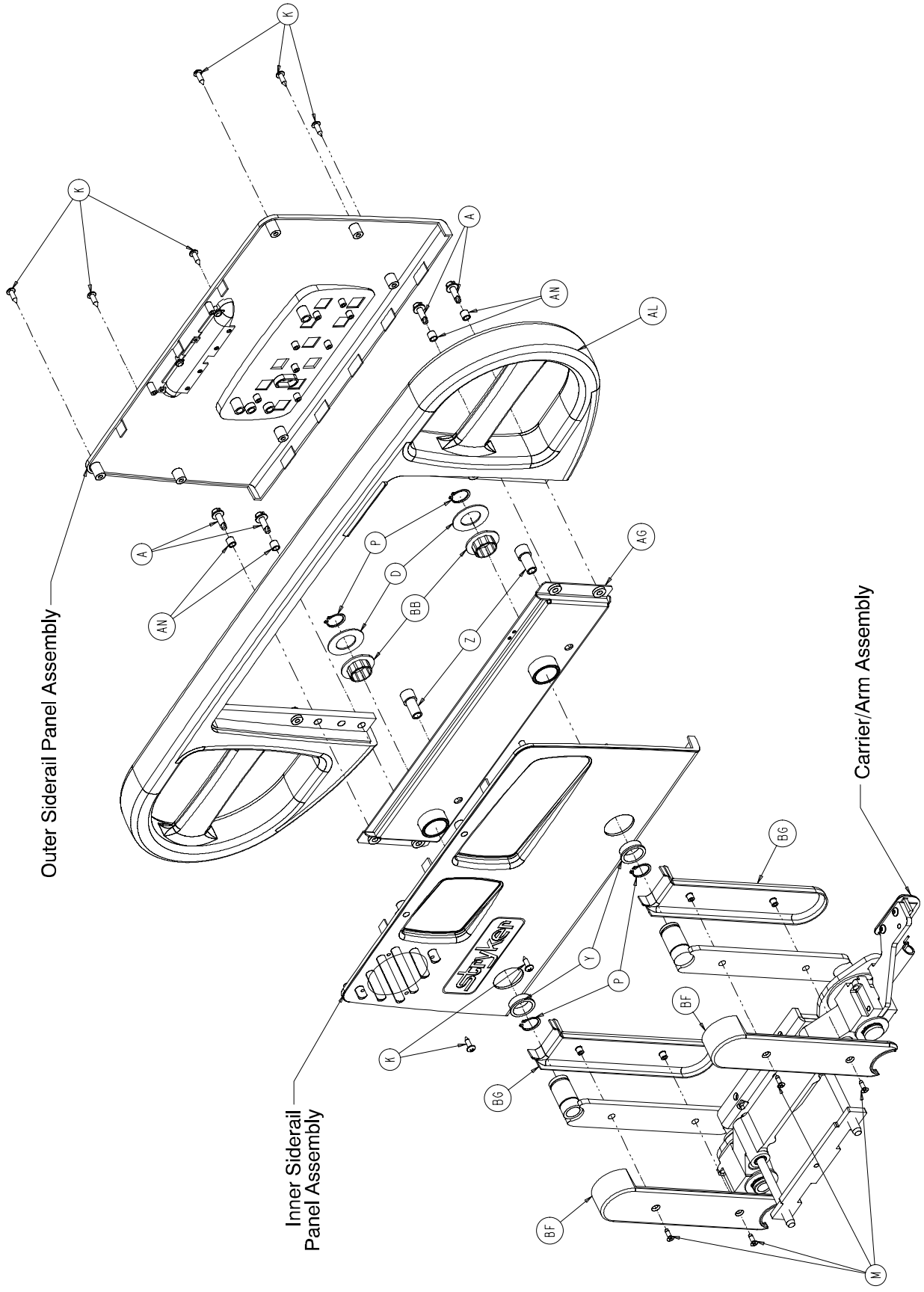
Item	Part No.	Part Name	Qty.
A	23–112	Ph. Hd. Hi–Lo Tapping Screw	6
B	3001–400–522	Filler Cap	2
C	3001–400–524	Module	1
D	3001–400–953	Switch Cap	4
E	5000–400–930	Keypad PCB, Left	1

2035–400–53 Optional Smart TV Siderail Module, Right

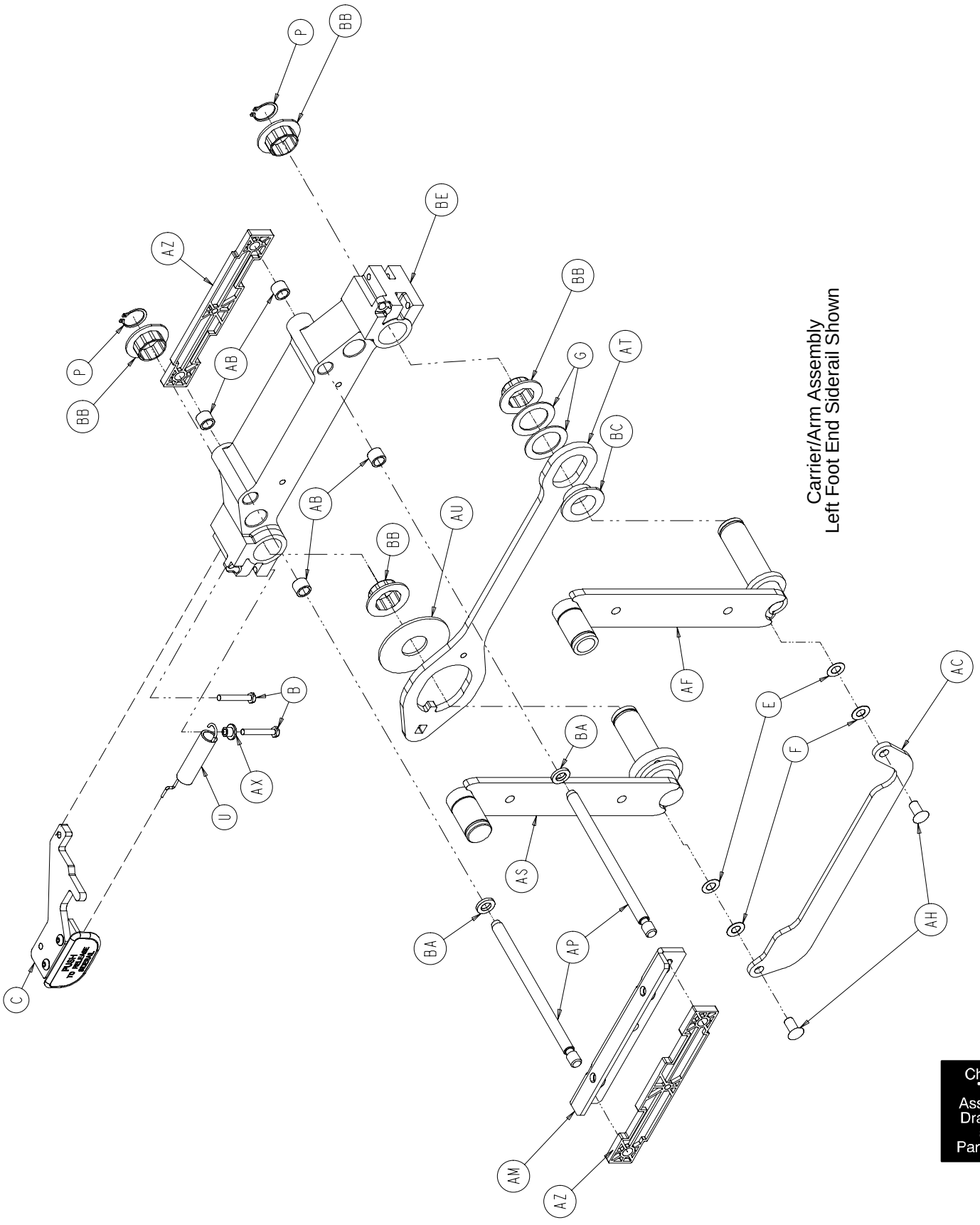


Item	Part No.	Part Name	Qty.
A	23–112	Ph. Hd. Hi–Lo Tapping Screw	6
B	3001–400–522	Filler Cap	2
C	3001–400–524	Module	1
D	3001–400–953	Switch Cap	4
E	5000–400–920	Keypad PCB, Right	1

Foot End Siderail Assembly, Left and Right

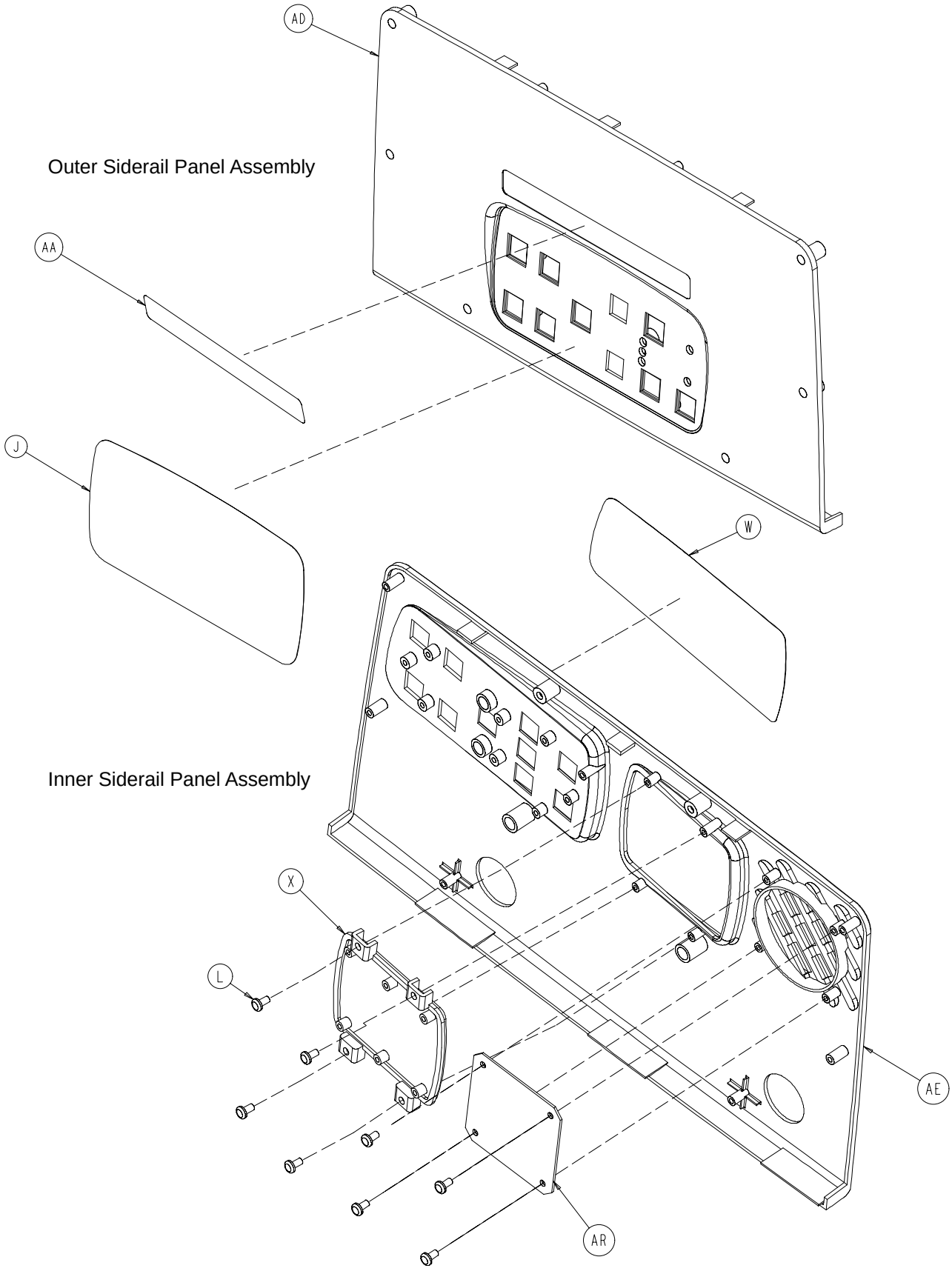


Foot End Siderail Assembly, Left and Right



Carrier/Arm Assembly
Left Foot End Siderail Shown

Foot End Siderail Assembly, Left and Right



Foot End Siderail Assembly, Left and Right

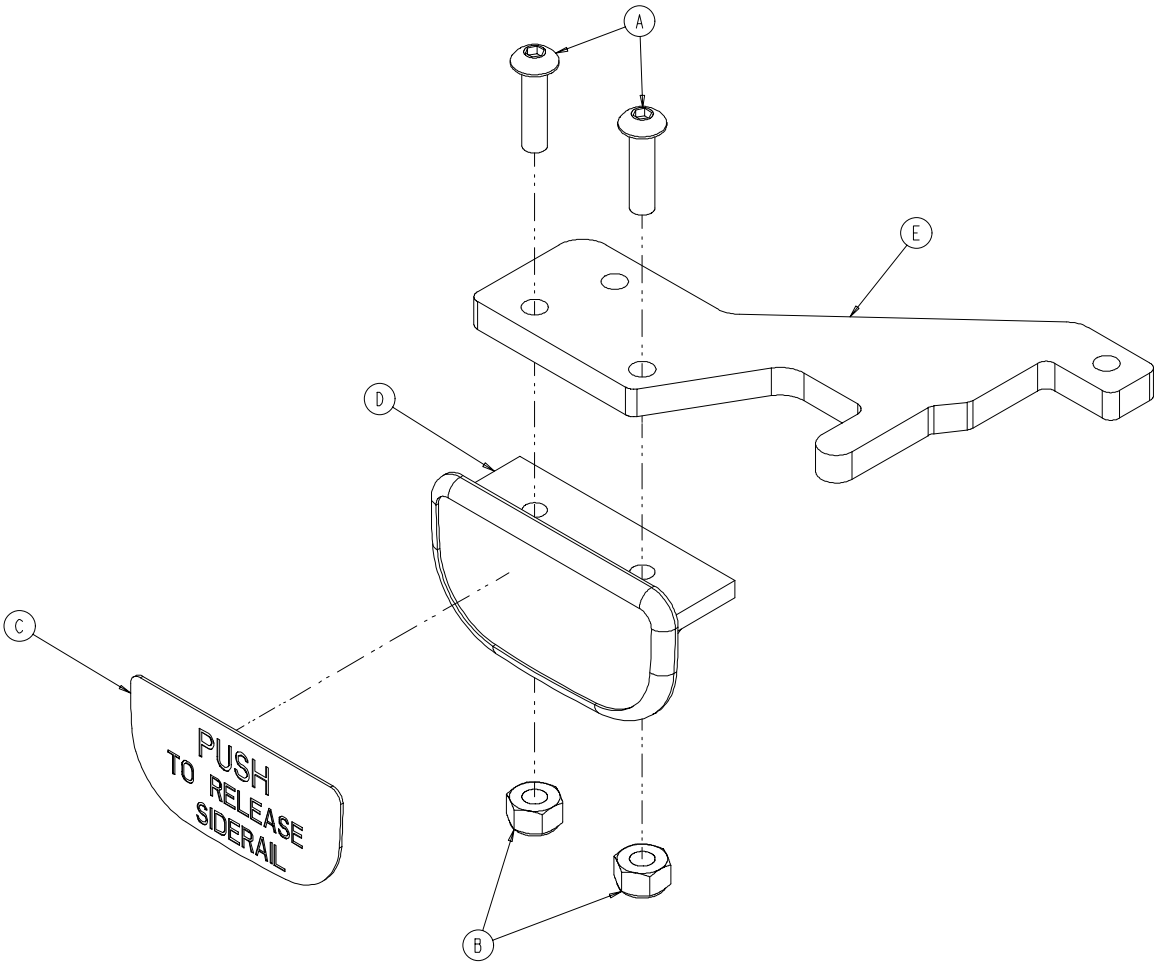
2030–400–305 Left Common Components

Item	Part No.	Part Name	Qty.
A	3–226	Hex Washer Hd. Screw	4
B	3–344	Hex Hd. Cap Screw	2
C	(page 10–76)	Release Lever Ass'y, Lt.	1
D	11–343	Shim Washer	2
E	11–377	Washer	2
F	11–403	Steel Shim Washer	2
G	14–93	Washer	2
J	2030–231–8	Outside Label	1
K	23–90	Pan Hd. Tapping Screw	8
L	23–112	Pan Hd. High–Low Tap. Scr.	8
M	23–280	Flat Hd. High–Low Tap. Scr.	4
P	28–128	Retaining Ring	6
U	3000–200–334	Extension Spring	1
W	3001–445–621	Blank Label, Left	1
X	3001–400–535	Inner Panel Blank Module	1
Y	3000–400–513	Wear Bushing	2
Z	3000–400–523	Panel Spacer	2
AA	3000–400–556	Warning Label	1
AB	3000–400–557	Sleeve Bearing	4
AC	3001–400–11	Head End Timing Link	1
AD	3001–400–50	Outer Siderail Panel	1
AE	3001–400–101	Inner Siderail Panel, Left	1
AF	3001–400–228	Arm Weldment, Rt., Hd., Hd.	1
AG	3001–400–130	Supt. Wldmt., Head, Left	1
AH	3001–400–501	Siderail Linkage Rivet	2
AL	3001–400–515	Head Rail	1
AM	3001–400–555	Mounting Bracket	1
AN	3001–400–558	Siderail Spacer	4
AP	3001–400–564	Glide Rod	2
AR	3001–400–517	Speaker Seal	1
AS	2030–400–327	Arm Wldmt., Lt., Ft., Ft.	1
AT	3002–400–501	Latch	1
AU	11–185	Washer	1
AW	3002–400–505	Bypass Pin	1
AX	3002–400–509	Bypass Bushing Spacer	1
AZ	3002–400–511	Glide Rod Bumper Pad	2
BA	3002–400–512	Bumper Washer	2
BB	3002–400–513	Pivot Bushing	6
BC	3002–400–519	Latch Bushing	1
BE	3002–400–528	Siderail Carrier	1
BF	5000–20–5	Inner Arm Cover	2
BG	5000–20–6	Outer Arm Cover	2

2030–400–405 Right Common Components

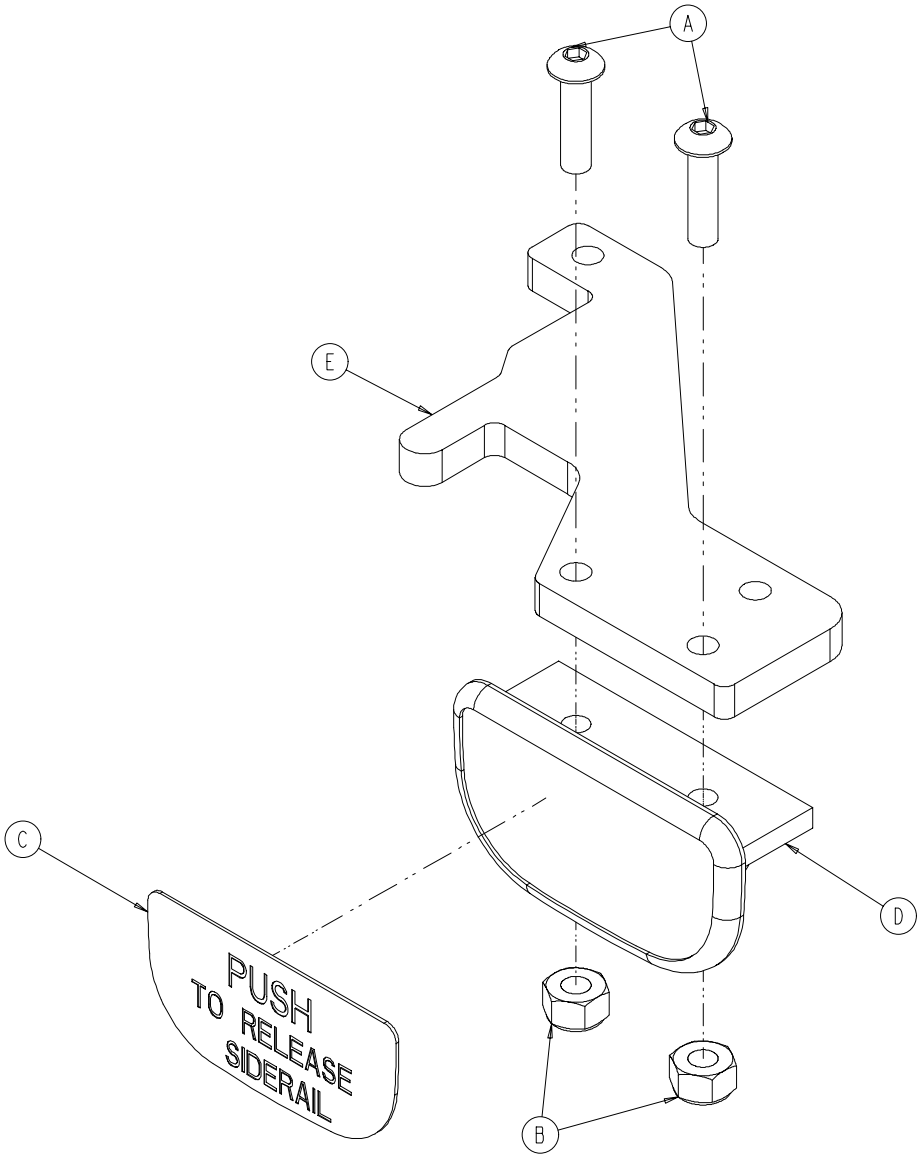
Item	Part No.	Part Name	Qty.
A	3–226	Hex Washer Hd. Screw	4
B	3–344	Hex Hd. Cap Screw	2
C	(page 10–77)	Release Lever Ass'y, Rt.	1
D	11–343	Shim Washer	2
E	11–377	Washer	2
F	11–403	Steel Shim Washer	2
G	14–93	Washer	2
J	2030–231–8	Outside Label	1
K	23–90	Pan Hd. Tapping Screw	8
L	23–112	Pan Hd. High–Low Tap. Scr.	8
M	23–280	Flat Hd. High–Low Tap. Scr.	4
P	28–128	Retaining Ring	6
U	3000–200–334	Extension Spring	1
W	3001–445–611	Blank Label, Right	1
X	3001–400–535	Inner Panel Blank Module	1
Y	3000–400–513	Wear Bushing	2
Z	3000–400–523	Panel Spacer	2
AA	3000–400–556	Warning Label	1
AB	3000–400–557	Sleeve Bearing	4
AC	3001–400–11	Head End Timing Link	1
AD	3001–400–50	Outer Siderail Panel	1
AE	3001–400–201	Inner Siderail Panel, Right	1
AF	3001–400–128	Arm Weldment, Lt., Hd., Hd.	1
AG	3001–400–230	Supt. Wldmt., Head, Right	1
AH	3001–400–501	Siderail Linkage Rivet	2
AL	3001–400–515	Head Rail	1
AM	3001–400–555	Mounting Bracket	1
AN	3001–400–558	Siderail Spacer	4
AP	3001–400–564	Glide Rod	2
AR	3001–400–517	Speaker Seal	1
AS	2030–400–427	Arm Wldmt., Rt., Ft., Ft.	1
AT	3002–400–501	Latch	1
AU	11–185	Washer	1
AW	3002–400–505	Bypass Pin	1
AX	3002–400–509	Bypass Bushing Spacer	1
AZ	3002–400–511	Glide Rod Bumper Pad	2
BA	3002–400–512	Bumper Washer	2
BB	3002–400–513	Pivot Bushing	6
BC	3002–400–519	Latch Bushing	1
BE	3002–400–528	Siderail Carrier	1
BF	5000–20–5	Inner Arm Cover	2
BG	5000–20–6	Outer Arm Cover	2

3002–400–55 Siderail Release Lever Assembly, Left



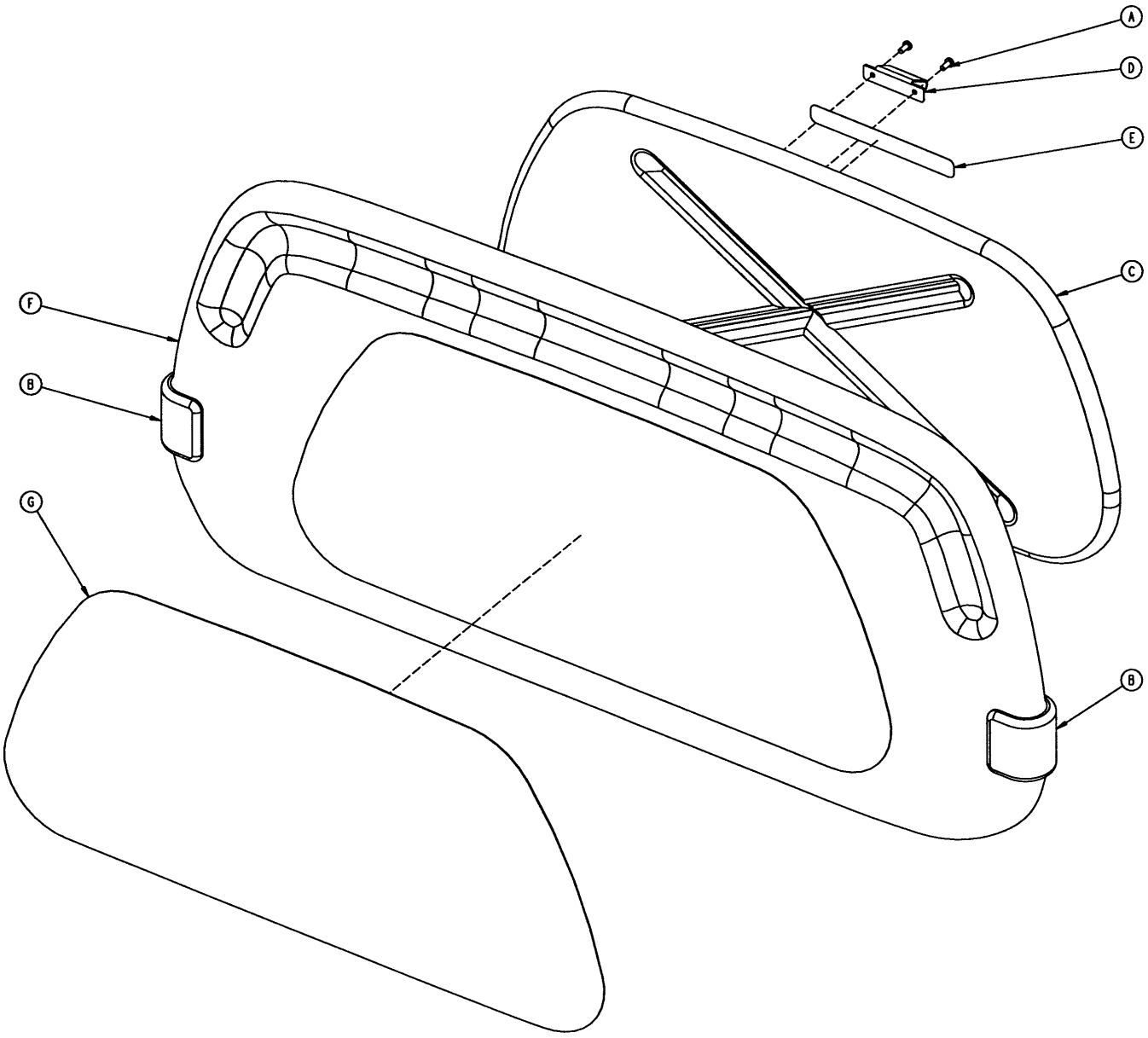
Item	Part No.	Part Name	Qty.
A	4–278	Socket But. Hd. Cap Screw	2
B	16–2	Hex Nut	2
C	3001–400–505	Release Label	1
D	3001–400–514	Release Lever Pad	1
E	3002–400–510	Release Lever	1

3002–400–65 Siderail Release Lever Assembly, Right



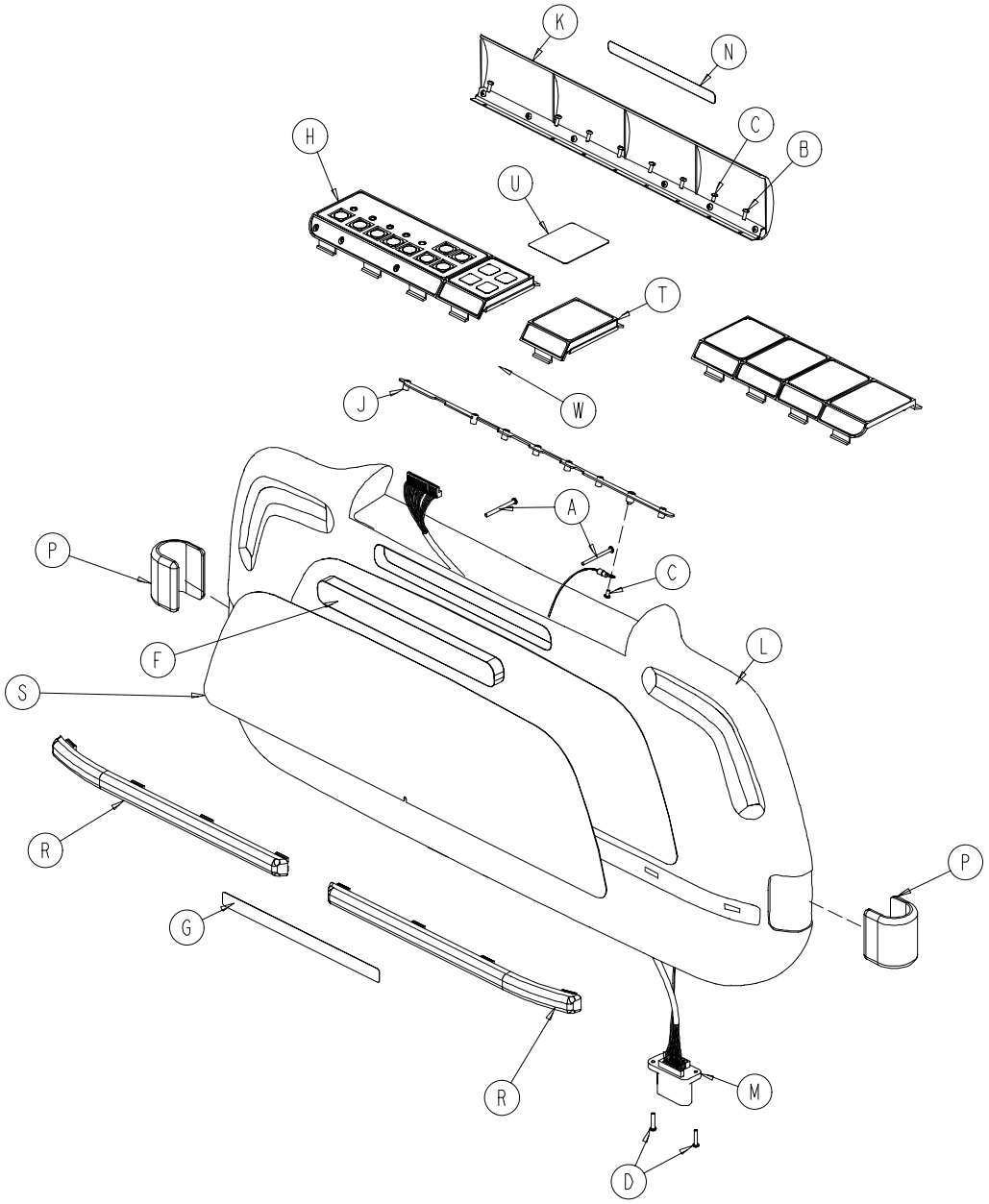
Item	Part No.	Part Name	Qty.
A	4–278	Socket But. Hd. Cap Screw	2
B	16–2	Hex Nut	2
C	3001–400–505	Release Label	1
D	3001–400–514	Release Lever Pad	1
E	3002–400–510	Release Lever	1

2035–130–10 Head Board Assembly



Item	Part No.	Part Name	Qty.
A	23–88	Pan Hd. Screw	2
B	2035–500–7	Dark Blue “C” Bumper	2
C	3000–526–1	CPR Board	1
D	3000–526–2	CPR Board Clip	1
E	3000–526–3	CPR Board Label	1
F	3000–600–10	Head Board Clam Shell Ass’y	1
G	3000–600–56	Beige Head Board Laminate	1
H	72–2–71	“C” Bumper Adhesive	N/A

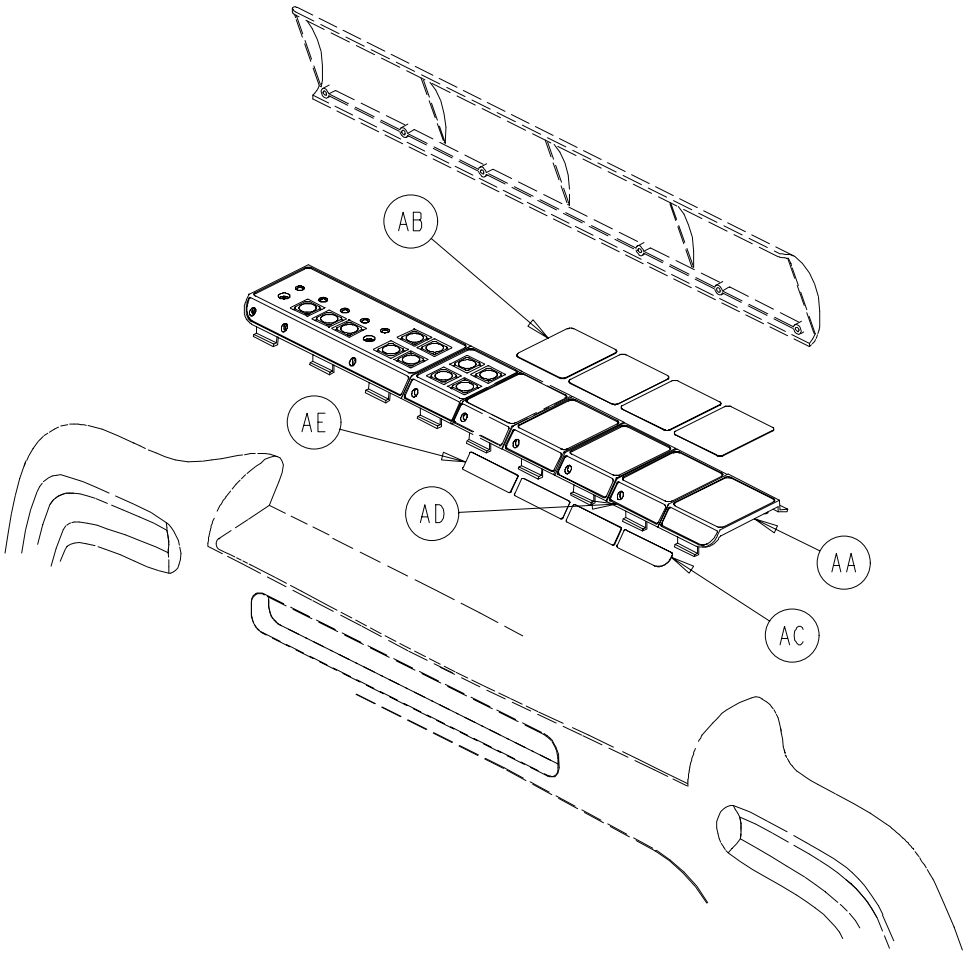
Foot Board Assembly and Options



2030–135–10 Foot Board Standard Components

Item	Part No.	Part Name	Qty.	Item	Part No.	Part Name	Qty.
A	23–99	Phil. Pan Hd. Tap. Screw	2	L	3001–500–10	Clamshell Assembly	1
B	23–103	Pan Hd. Hi/Lo Tap. Screw	7	M	3001–500–801	Foot Board Drawer Cable	1
C	50–38	Pan Hd. Mach. Screw	2	N	3000–500–25	Lid Label	1
D	50–39	Pan Hd. Mach. Screw	2	P	2035–500–7	Blue “C” Bumper	2
E	72–2–71	“C” Bumper Adhesive	.30	R	2035–500–8	Strip Bumper	2
F	3000–500–8	Chart Rack Cover	1	S	3000–500–56	Beige Laminate	1
G	3000–500–29	Hazard Label	1	T	(page 10–87)	E–Drop/Card. Ch. Module	1
H	(page 10–86)	Main Module	1	U	2035–000–155	E–Drop/Card. Ch. Label	1
J	3001–500–64	Hinge Plate	1	W	2025–136–801	E–Drop/Card. Ch. Cable	1
K	3001–500–1	Lid Assembly	1				

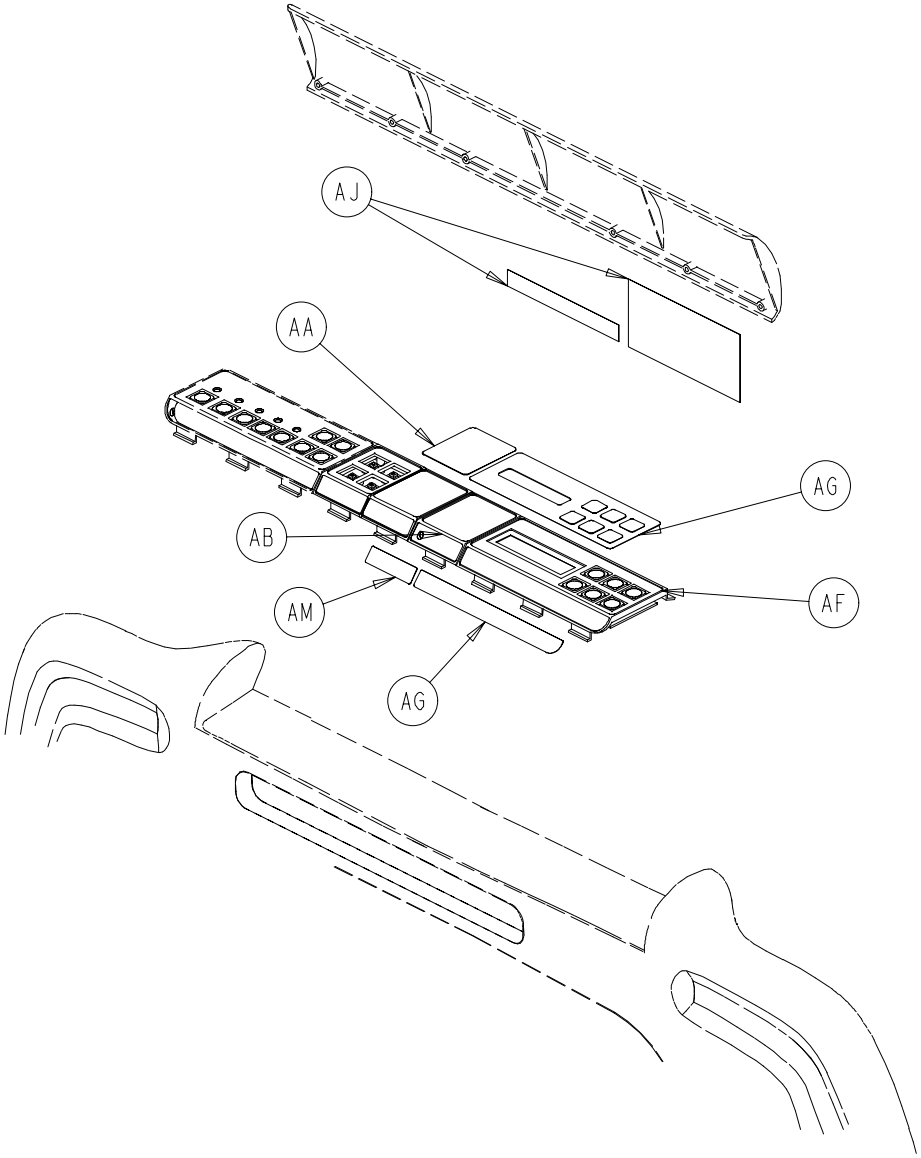
Foot Board Assembly and Options



2030–135–11 Foot Board No Scale/No Bed Exit Option

Item	Part No.	Part Name	Qty.
AA	3000–500–4	End Module	1
AB	2035–500–101	Foot Board Blank Label	4
AC	3000–500–27	Blank End Label	1
AD	3001–500–3	Blank Module	3
AE	3000–500–26	Blank Module Label	3

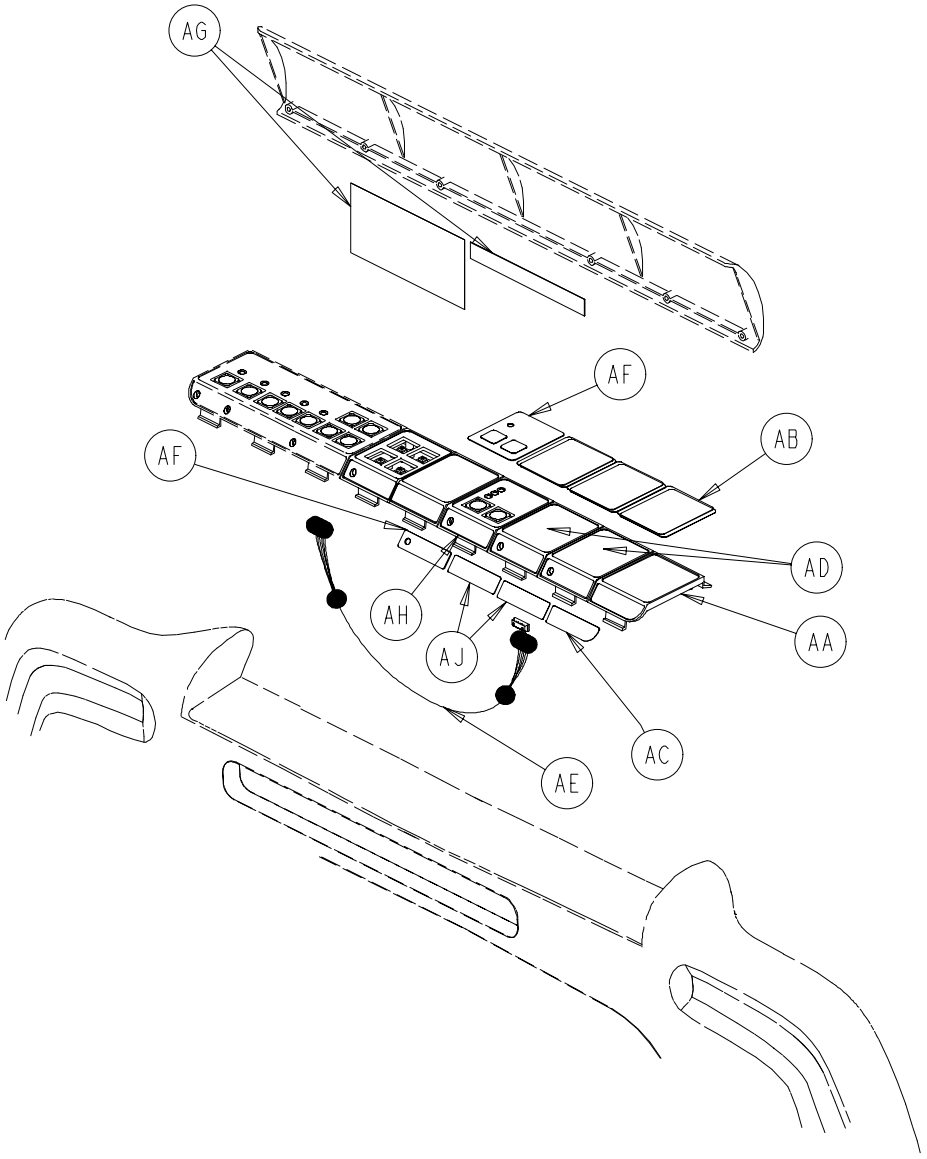
Foot Board Assembly and Options



2030–135–13 Foot Board Scale Option

Item	Part No.	Part Name	Qty.
AA	2035–500–101	Foot Board Blank Label	1
AB	3001–500–3	Blank Module	1
AF	(page 10–90)	Scale Module Assembly	1
AG	2030–000–152	Scale Module Label	1
AJ	3002–507–11	Scale Lid Label	1
AM	3000–500–26	Blank Label	1

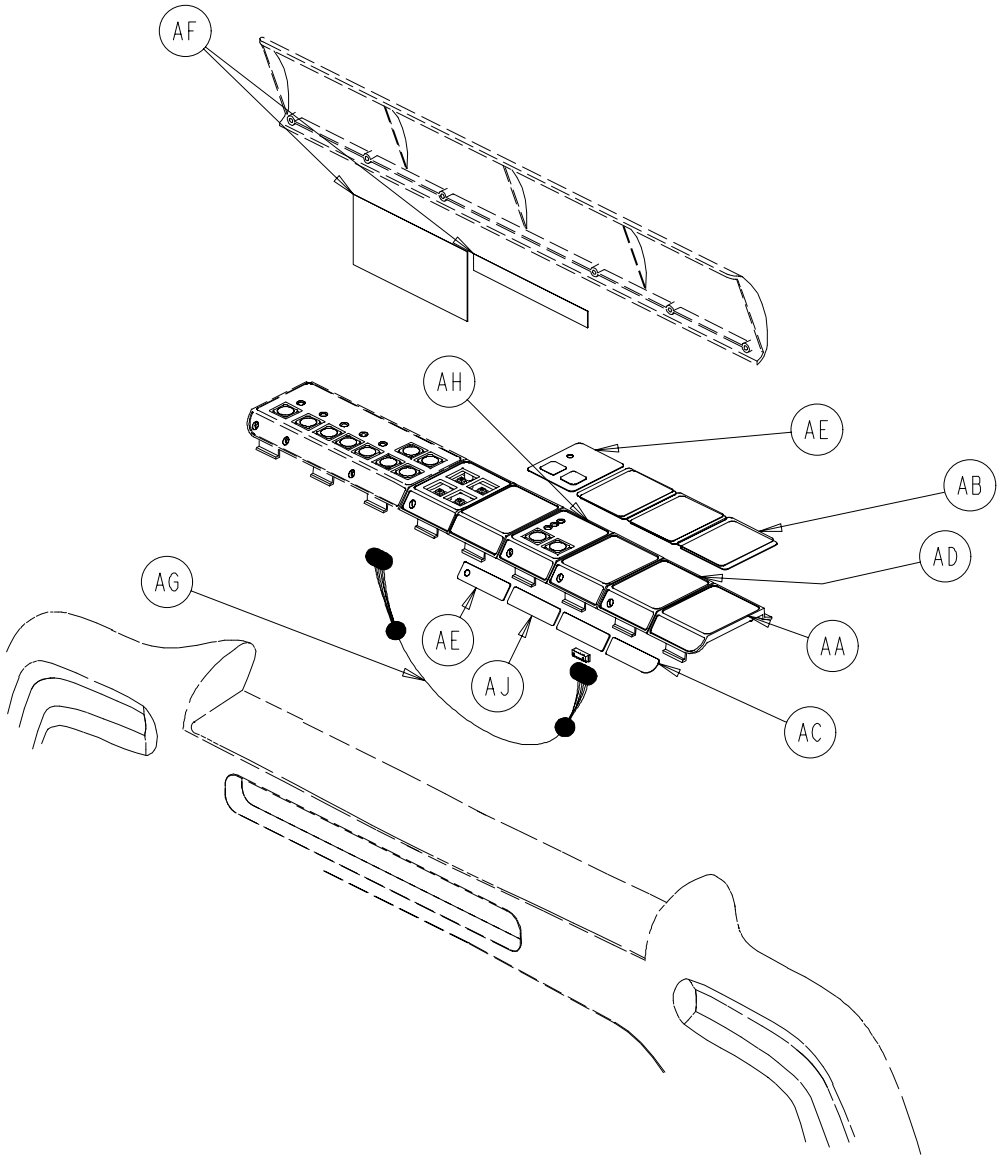
Foot Board Assembly and Options



2030–135–12 Foot Board Chaperone™ Option

Item	Part No.	Part Name	Qty.
AA	3000–500–4	End Module	1
AB	2035–500–101	Foot Board Blank Label	3
AC	3000–500–27	Blank End Label	1
AD	3001–500–3	Blank Module	2
AE	3001–508–800	Bed Exit Keypad Cable	1
AF	2030–000–154	Bed Exit Label	1
AG	3002–508–10	Bed Exit Lid Label	1
AH	(page 10–88)	Bed Exit Module Assembly	1
AJ	3000–500–26	Blank Module Assembly	2

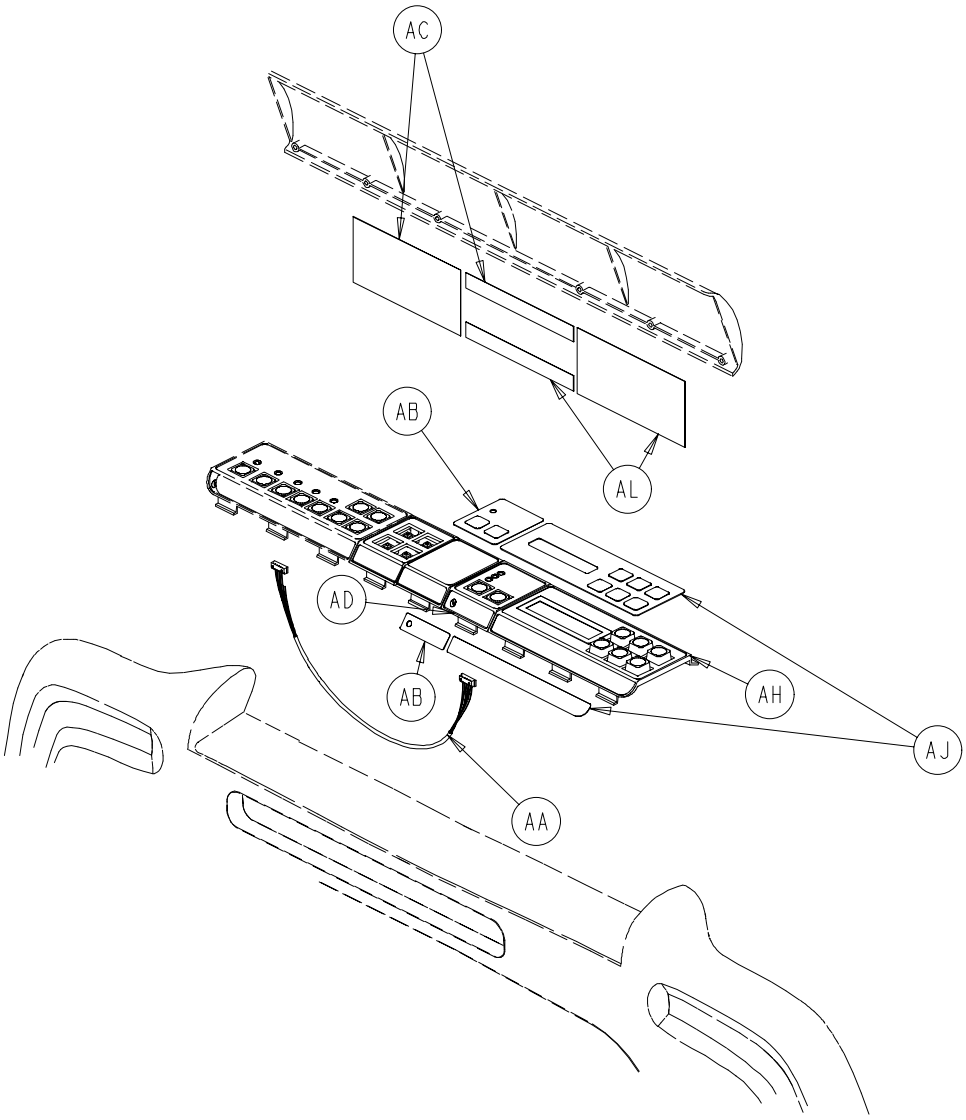
Foot Board Assembly and Options



2030–135–15 Foot Board Chaperone™ w/Zone Control Option

Item	Part No.	Part Name	Qty.
AA	3000–500–4	End Module	1
AB	2035–500–101	Foot Board Blank Label	3
AC	3000–500–27	Blank End Label	1
AD	3001–500–3	Blank Module	2
AE	2030–000–156	Chaperone II Module Label	1
AF	3002–508–12	Chaperone II Label	1
AG	3002–508–800	Zone Control Keypad Cable	1
AH	(page 10–89)	Bed Exit Module Assembly	1
AJ	3000–500–26	Blank Module Label	2

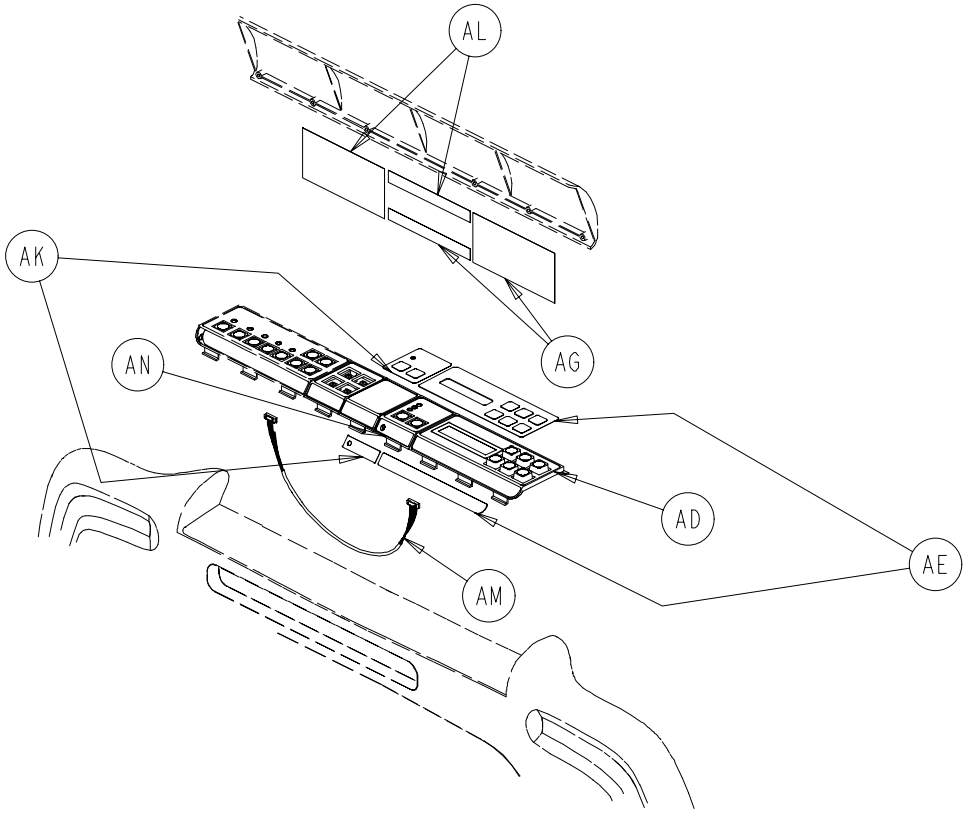
Foot Board Assembly and Options



2030–135–14 Foot Board Scale and Chaperone™ Options

Item	Part No.	Part Name	Qty.
AA	3001–508–800	Bed Exit Keypad Cable	1
AB	2030–000–154	Bed Exit Label	1
AC	3002–508–10	Bed Exit Lid Label	1
AD	(page 10–88)	Bed Exit Module Assembly	1
AH	(page 10–90)	Scale Module Assembly	1
AJ	2030–000–152	Scale Module Label	1
AL	3002–507–11	Scale Lid Label	1

Foot Board Assembly and Options

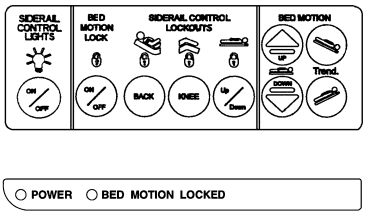


2030–135–16 Foot Board Scale and Chaperone™ w/Zone Control Options

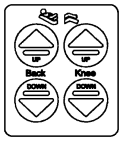
Item	Part No.	Part Name	Qty.
AD	(page 10–90)	Scale Module Assembly	1
AE	2030–000–152	Scale Module Label	1
AG	3002–507–11	Scale Lid Label	1
AK	2030–000–156	Chaperone II Module Label	1
AL	3002–508–12	Chaperone II Label	1
AM	3002–508–800	Zone Control Keypad Cable	1
AN	(page 10–88)	Bed Exit Module Assembly	1

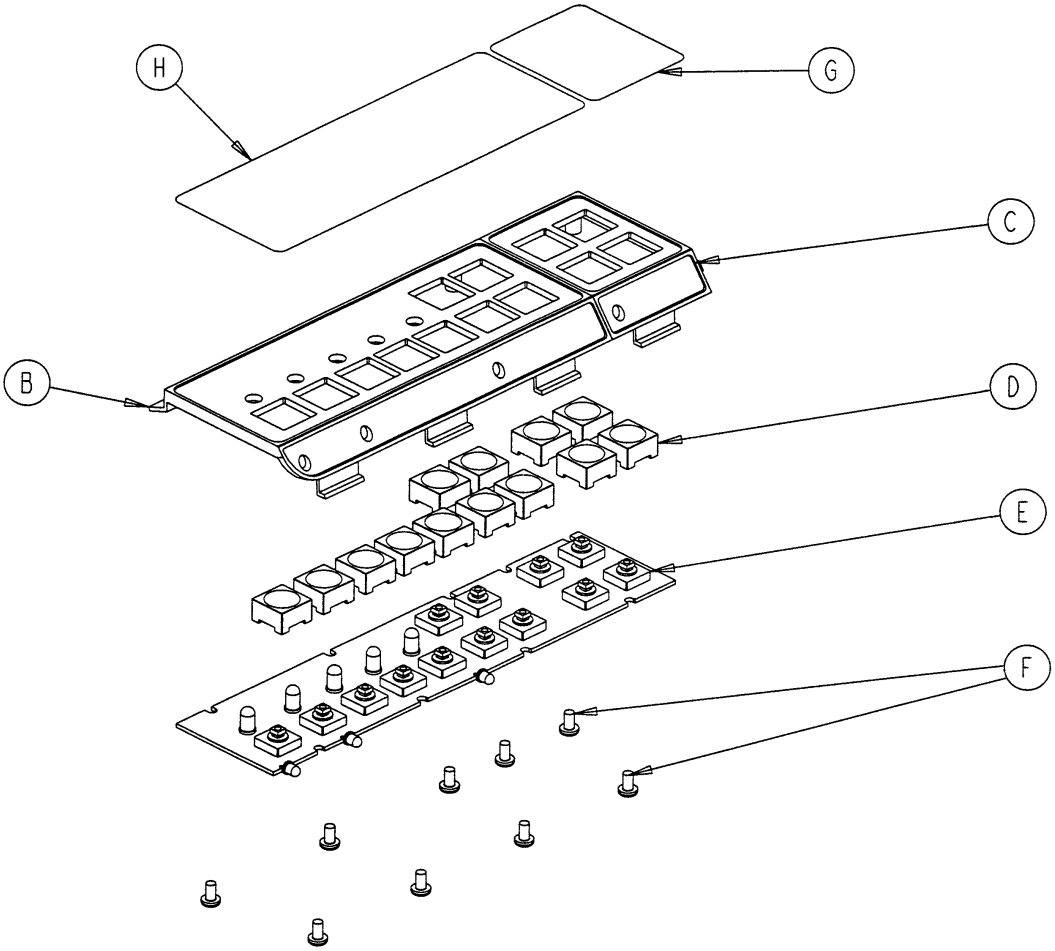
2035–235–20 Foot Board Main Module Assembly

part number 2035–000–151



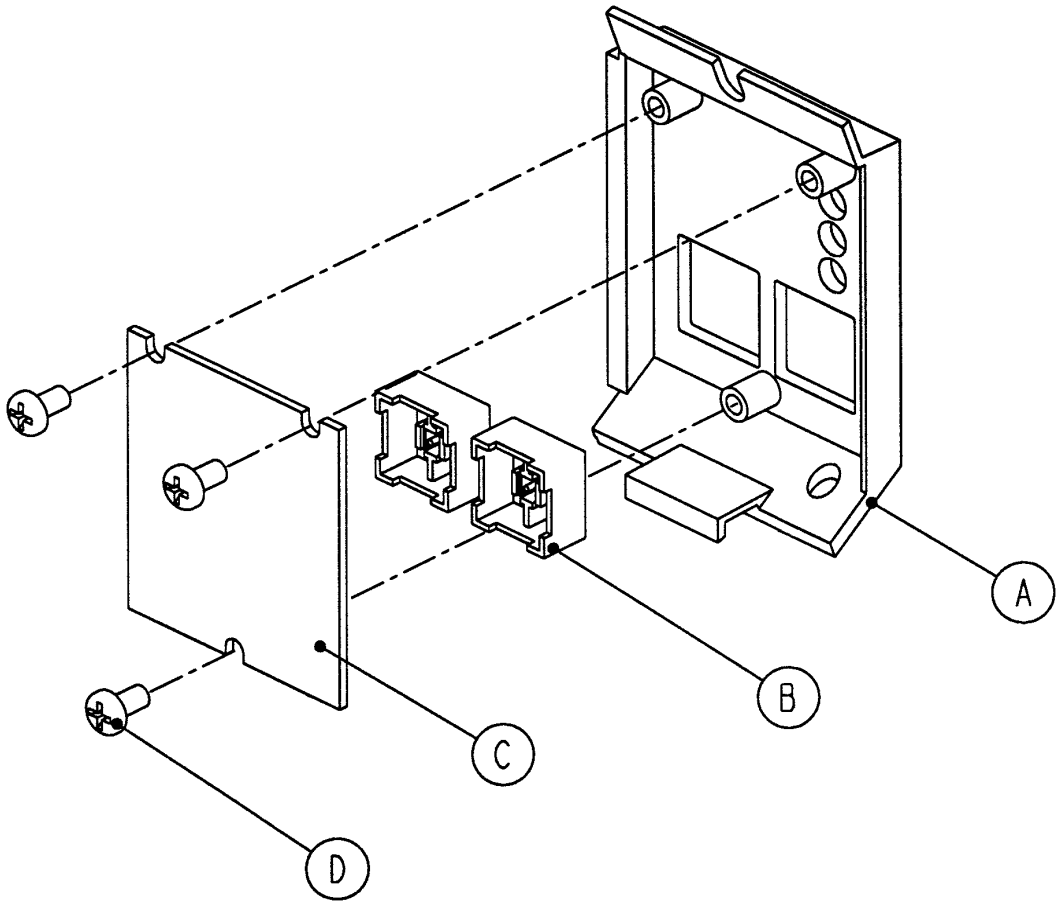
part number 2035–000–153





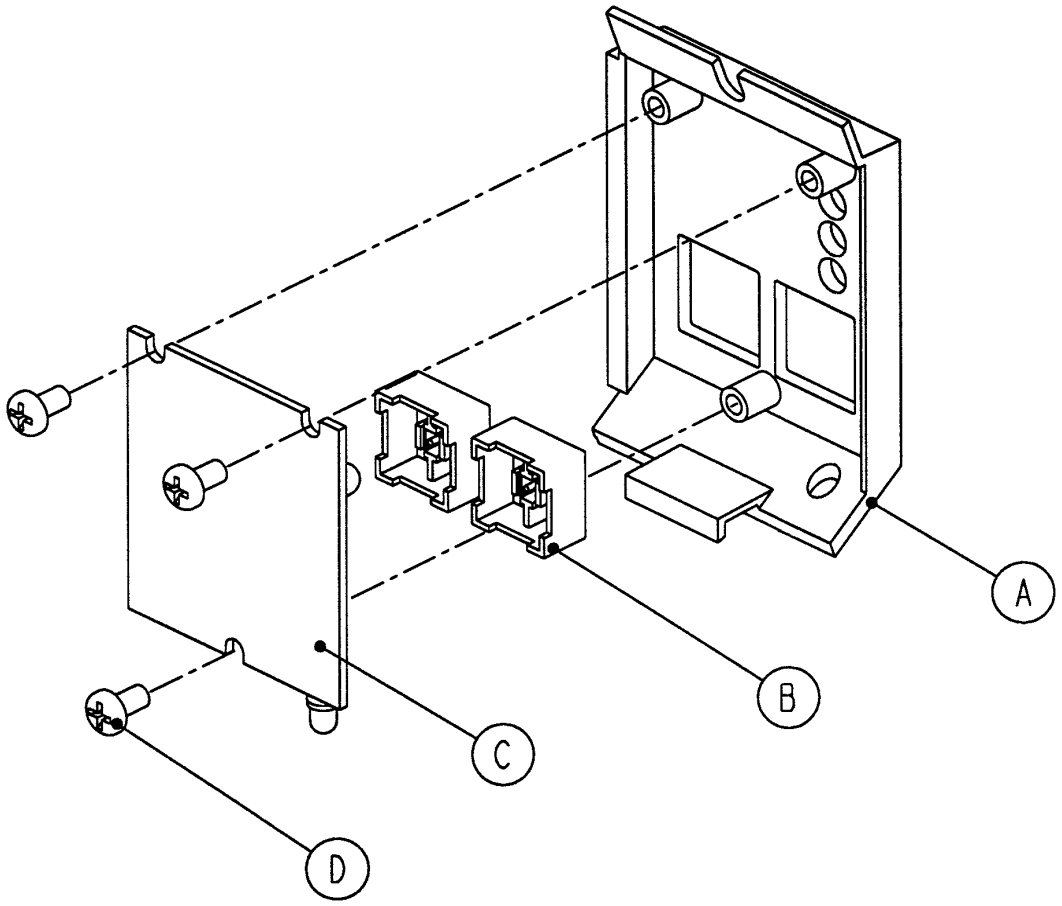
Item	Part No.	Part Name	Qty.
B	3000–500–2	Foot Board Standard Module	1
C	3000–501–1	Gatch/Fowler Module	1
D	3001–400–953	Switch Cap	13
E	3001–500–930	Main Foot Board PCB	1
F	23–87	Pan Hd. Tapping Screw	9
G	2035–000–153	Gatch/Fowler Label	1
H	2035–000–151	Foot Board Std. Module Label	1

2025–136–21 Foot Board Emer. Drop/Cardiac Chair Module



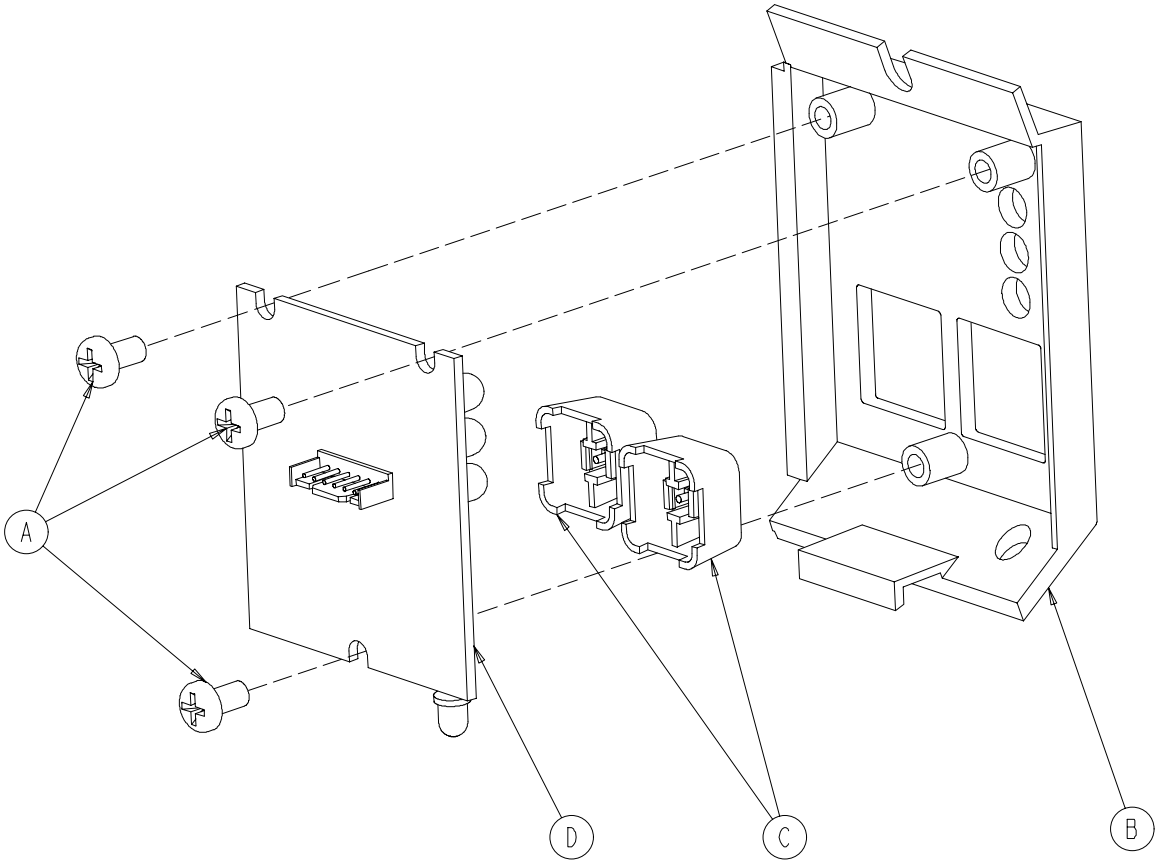
Item	Part No.	Part Name	Qty.
A	3000–508–1	Bed Exit Module Panel	1
B	3001–400–953	Switch Cap	2
C	2025–136–900	CPR Drop/Card. Ch. Keypad	1
D	23–87	Hi–Low Tapping Screw	3

2025–136–22 Opt. Foot Board Chaperone Bed Exit Module



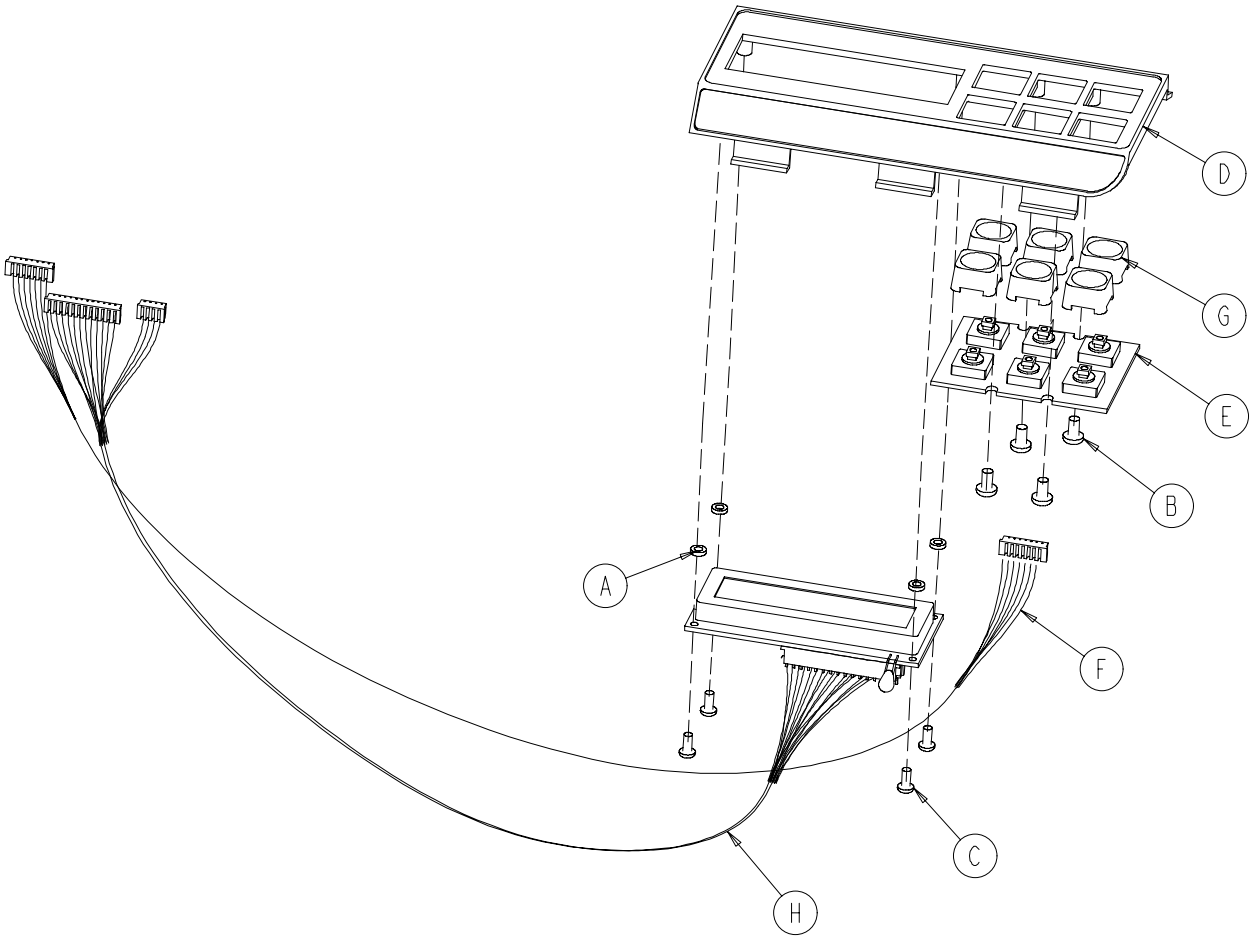
Item	Part No.	Part Name	Qty.
A	3000–508–1	Bed Exit Module Panel	1
B	3001–400–953	Switch Cap	2
C	3001–508–910	Bed Exit Keypad Ass'y	1
D	23–87	Hi–Low Tapping Screw	3

3002–508–30 Opt. Ft. Bd. Chaperone w/Zone Bed Exit Module



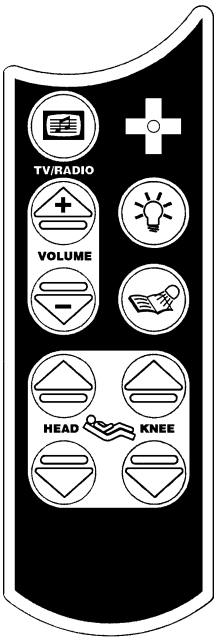
Item	Part No.	Part Name	Qty.
A	23–87	Hi–Low Tapping Screw	3
B	3000–508–1	End Exit Module Panel	1
C	3001–400–953	Switch Cap	2
D	3002–508–900	Bed Exit Board	1

3002–507–30 Foot Board Scale Module Assembly

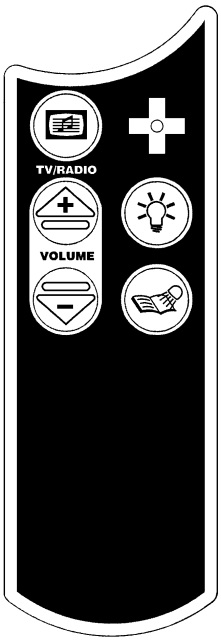


Item	Part No.	Part Name	Qty.
A	11–487	Nylon Washer	4
B	23–87	Pan Hd. Hi–Lo Tapping Screw	4
C	23–91	Pan Hd. Hi–Lo Tapping Screw	4
D	3001–507–1	Scale Module	1
E	3001–507–910	Scale Keypad	1
F	3001–507–800	Scale Keypad Cable	1
G	3001–400–953	Switch Cap	6
H	3002–507–900	Scale Display Cable	1

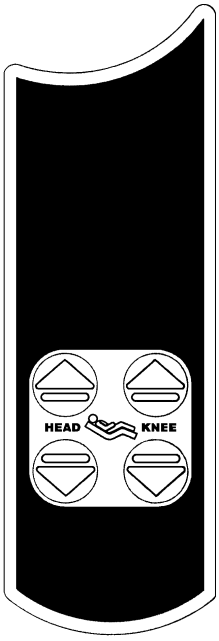
Optional Pendant Assembly



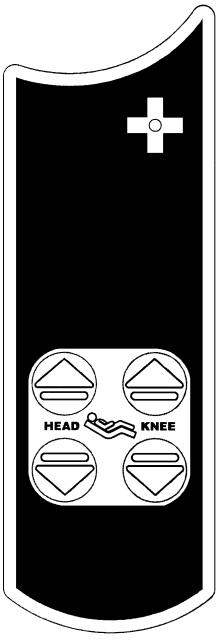
3001–315–12 Combination Pendant Motion/Communication



3001–315–16 Combination Pendant Communication Only

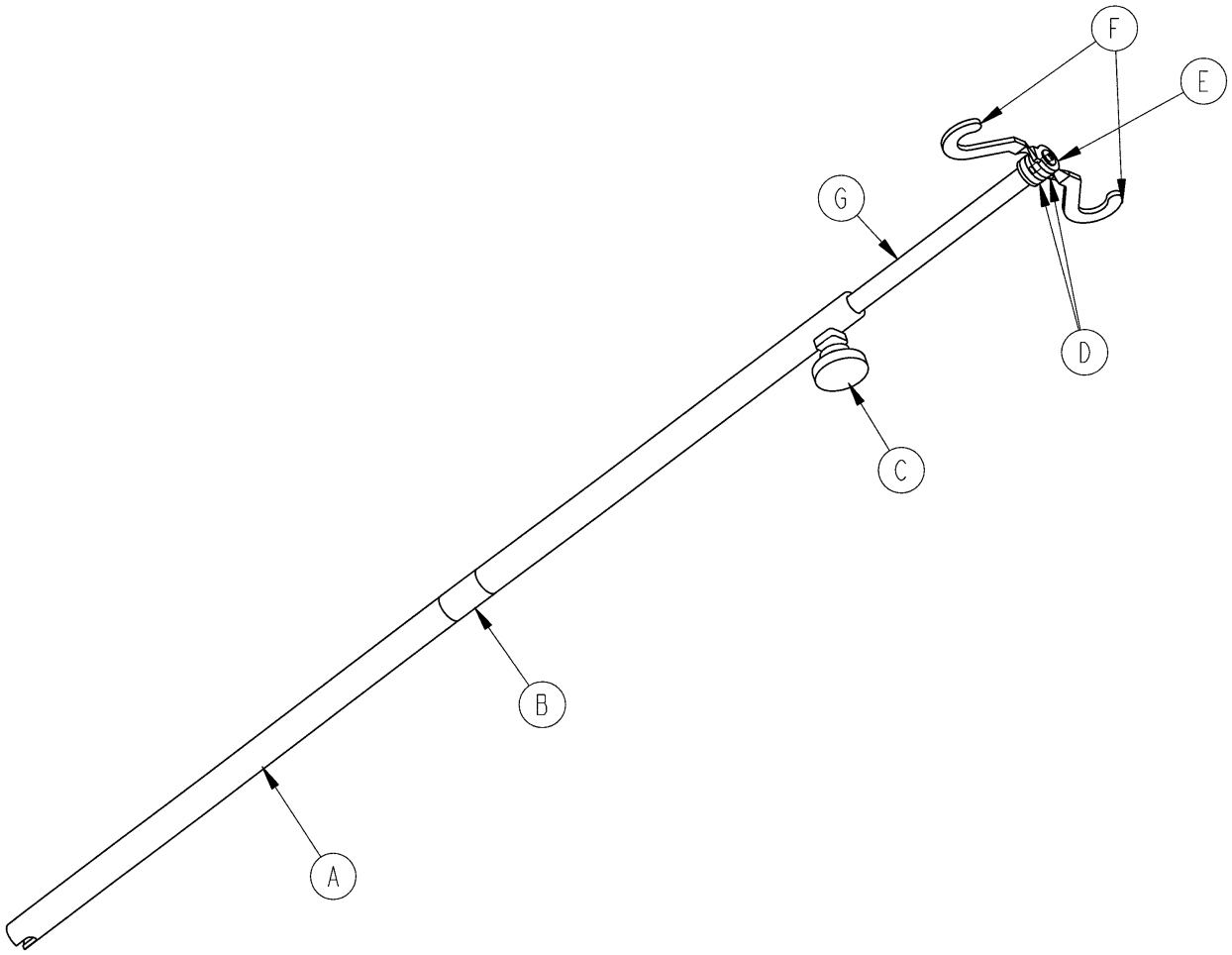


3001–315–14 Combination Pendant Motion Only



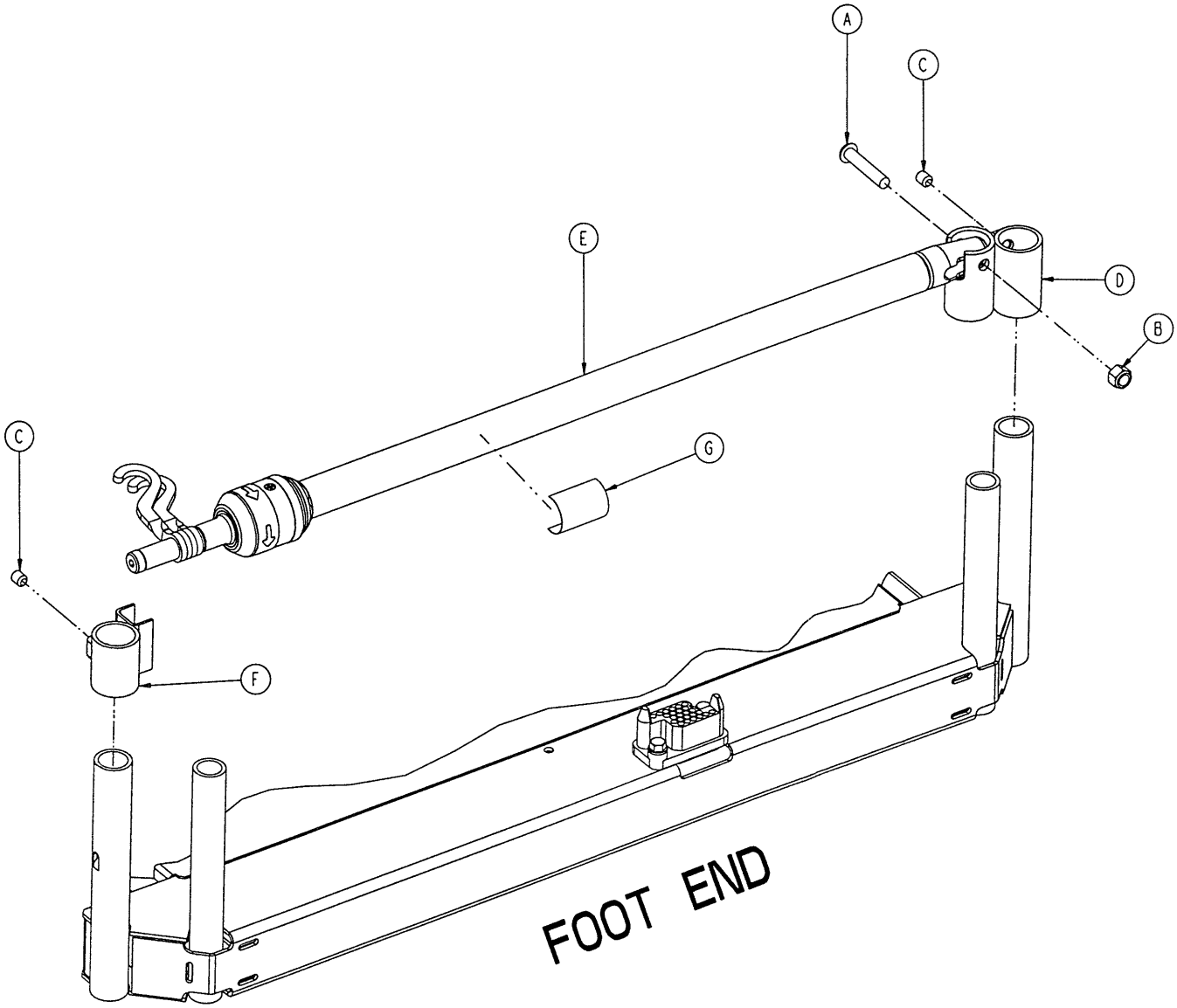
3001–315–18 Combination Pendant Motion/NurseCall

3000–300–80 Removable I.V. Pole Assembly



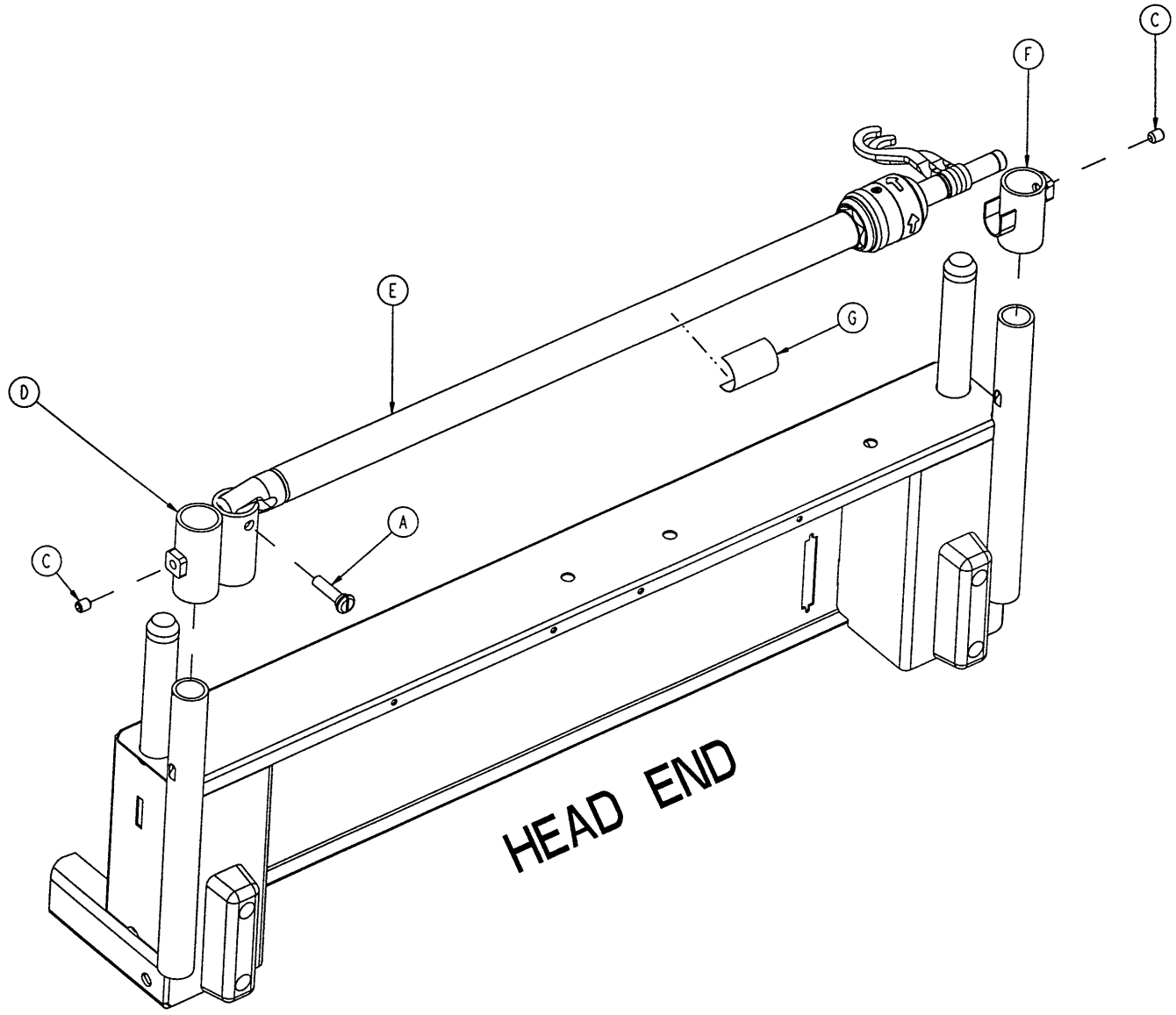
Item	Part No.	Part Name	Qty.
A	3000–300–81	Outer Tube	1
B	3000–300–89	Label	1
C	24–50	Fluted Knob	1
D	52–17	Spacer	2
E	7–40	Phillips Truss Hd. Screw	1
F	1010–59–16	I.V. Hook	2
G	3000–300–85	Inner Tube Assembly	1

2035–111 Optional 2–Stage I.V. Mounting Assembly, Foot End



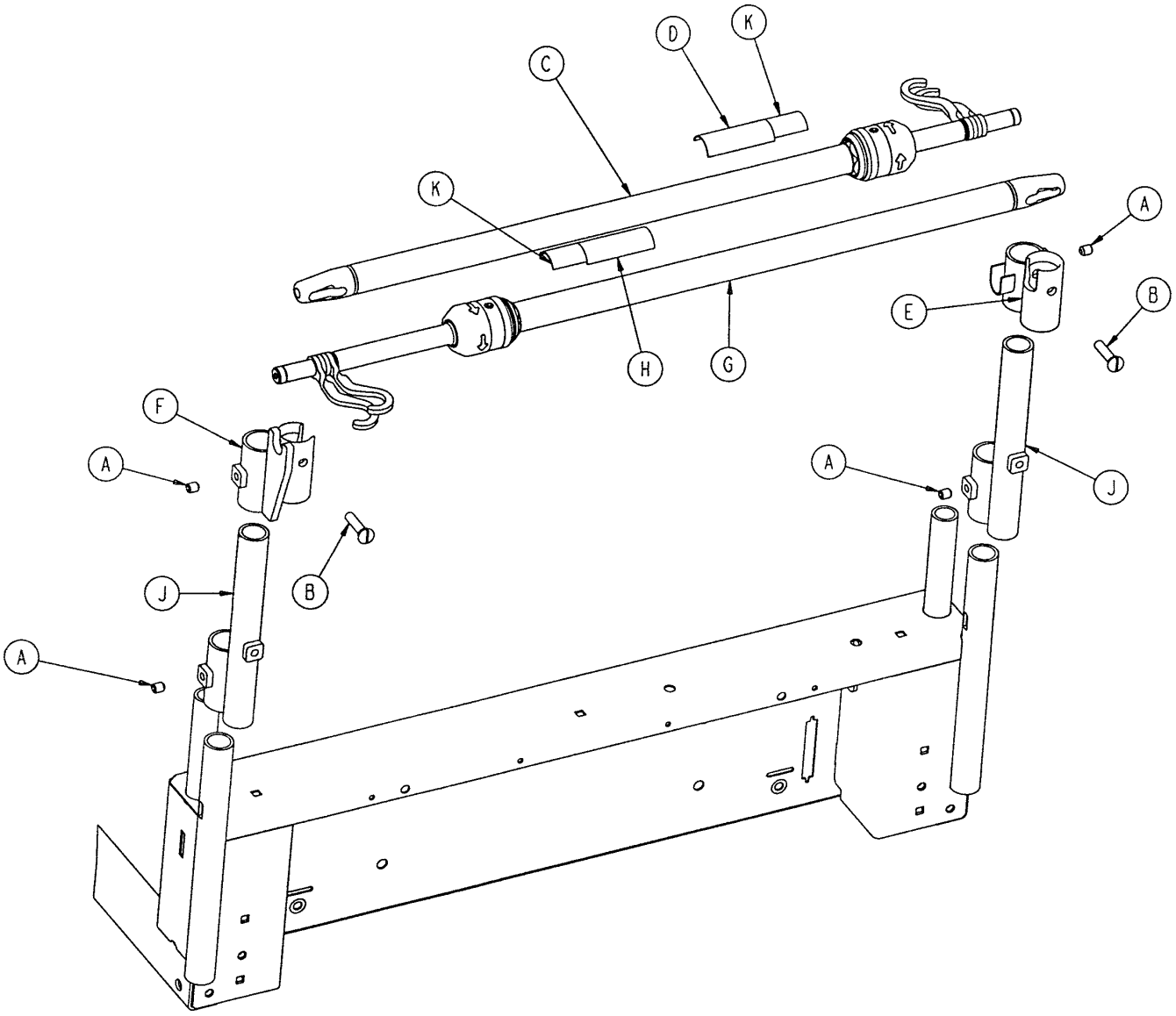
Item	Part No.	Part Name	Qty.
A	4–199	But. Hd. Cap Screw	1
B	16–11	Flexlock Nut	1
C	21–140	Set Screw	2
D	2035–111–1	I.V. Receptacle, Foot, Left	1
E	(page 10–96)	I.V. Pole Assembly, Left	1
F	3000–312–35	I.V. Cradle	1
G	2035–112–110	Specification Label	1

2035–112 Optional 2–Stage I.V. Mounting Assembly, Head End



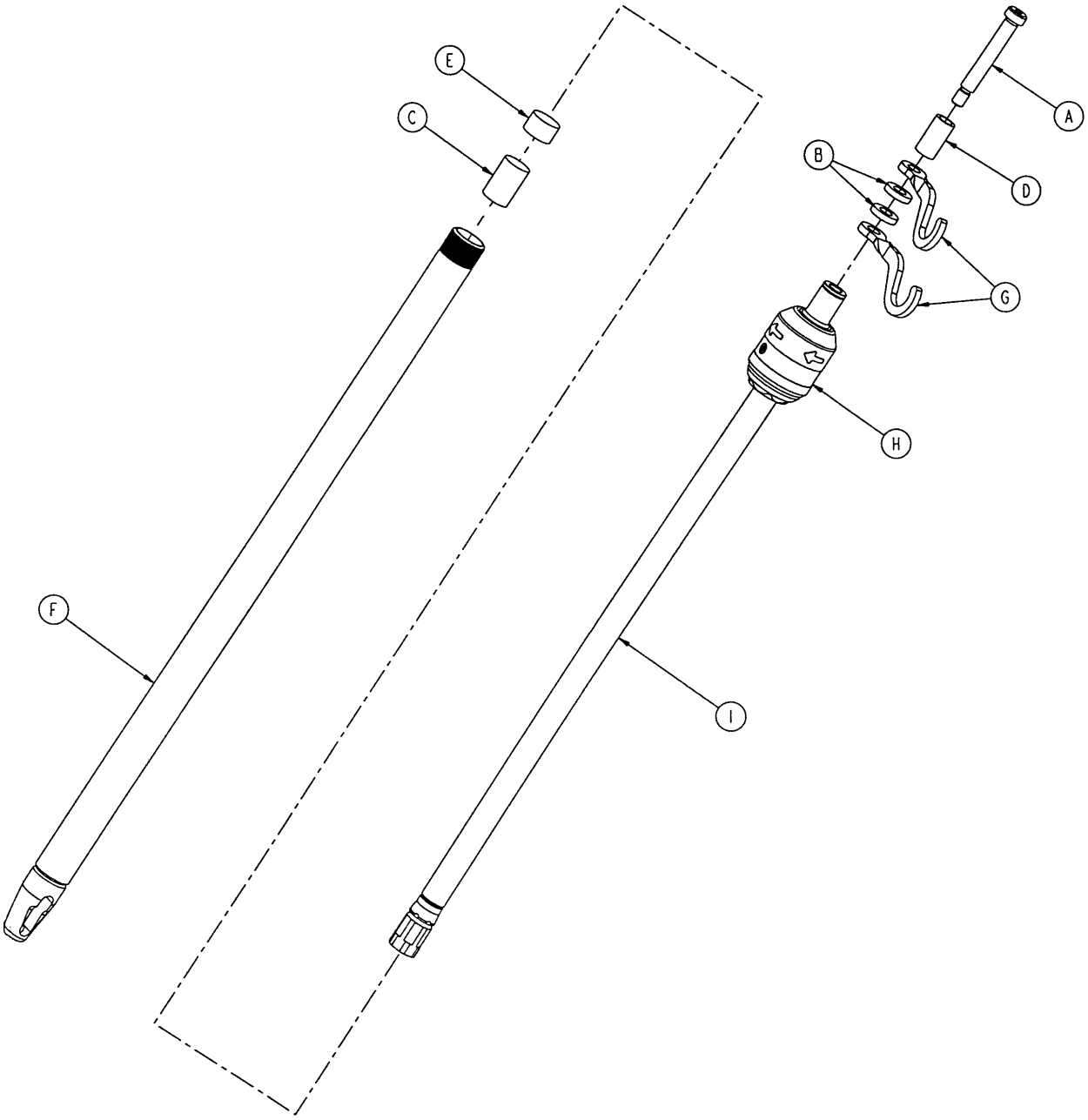
Item	Part No.	Part Name	Qty.
A	1015–24–35	Retaining Pin	1
C	21–140	Set Screw	2
D	2035–112–1	I.V. Receptacle, Head, Left	1
E	(page 10–96)	I.V. Pole Assembly, Left	1
F	3000–311–16	I.V. Rest	1
G	2035–112–110	Specification Label	1

2040–110–3 Dual Head End I.V. Mounting Assembly



Item	Part No.	Part Name	Qty.
A	21–140	Set Screw	4
B	1015–24–35	Retaining Pin	2
C	(page 10–96)	I.V. Pole Assembly, Left	1
D	2035–112–110	Specification Label	1
E	2035–113–1	I.V. Receptacle, Dual Hd. End, Lt.	1
F	2035–113–2	I.V. Receptacle, Dual Hd. End, Rt.	1
G	(page 10–96)	I.V. Pole Assembly, Right	1
H	2035–113–111	Specification Label	1
J	2040–110–2	I.V. Pole Extension	2
K	6060–90–114	”Keep Hands Clear” Label	2

2035–112–10 & 2035–113–11 Optional 2–Stage I.V. Assembly



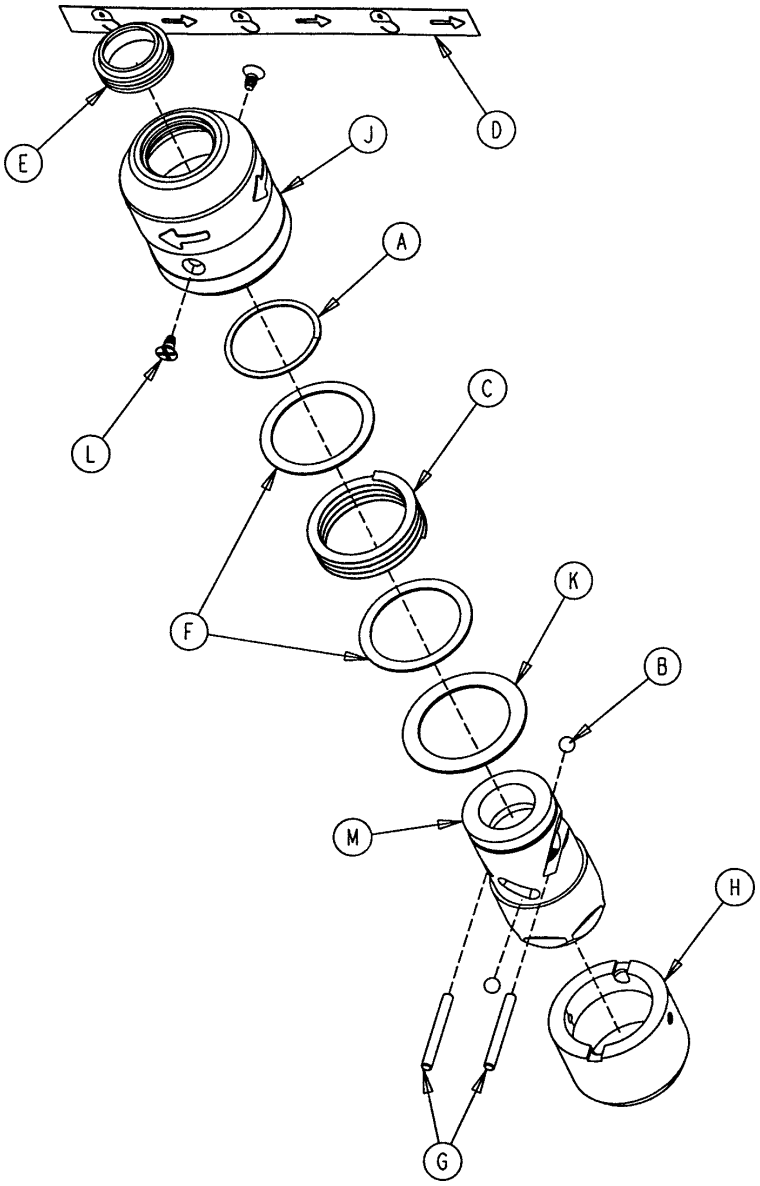
2035–112–10 Head End, Left

Item	Part No.	Part Name	Qty.
A	8–31	Soc. Hd. Shoulder Screw	1
B	52–17	Washer	2
C	52–310	Spacer	1
D	926–400–162	Spacer	1
E	1001–259–13	Dampener	1
F	1001–259–32	Base Tube Weldment	1
G	1010–259–16	I.V. Hook	2
H	(page 10–97)	I.V. Pole Latch	1
I	1211–110–29	2nd Stage Assembly	1

2035–113–11 Foot End, Right

Item	Part No.	Part Name	Qty.
A	8–31	Soc. Hd. Shoulder Screw	1
B	52–17	Washer	2
C	52–311	Spacer	1
D	926–400–162	Spacer	1
E	1001–259–13	Dampener	1
F	1001–259–32	Base Tube Weldment	1
G	1010–259–16	I.V. Hook	2
H	(page 10–97)	I.V. Pole Latch	1
I	1211–110–29	2nd Stage Assembly	1

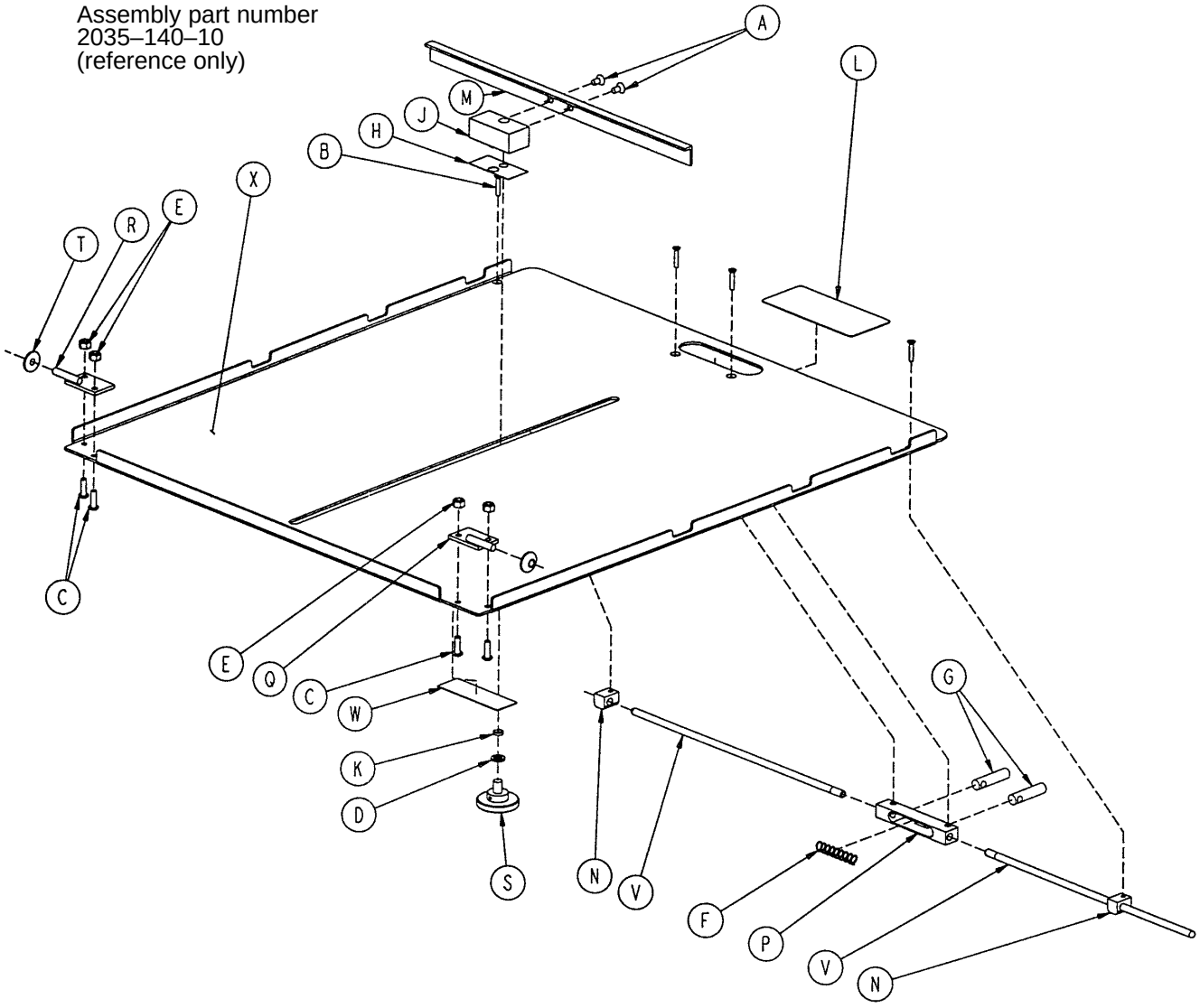
1211–210–26 Optional I.V. Pole Latch Assembly



Item	Part No.	Part Name	Qty.
A	28–167	Retaining Ring	1
B	31–4	Steel Ball	2
C	38–392	Crest–to–Crest Spring	1
D	1211–91–34	Release Label	1
E	1211–110–18	I.V. Latch Seal	1
F	1211–110–20	Washer	2
G	1211–110–21	I.V. Latch Locking Pin	2
H	1211–110–22	I.V. Latch Guide	1
J	1211–110–24	I.V. Latch O.D. Housing	1
K	1211–110–35	Washer	1
L	1211–110–36	Self–Tapping Screw	2
M	1211–210–23	I.V. Latch I.D. Housing	1

2035–140 Optional Fowler X–Ray Cassette Holder Assembly

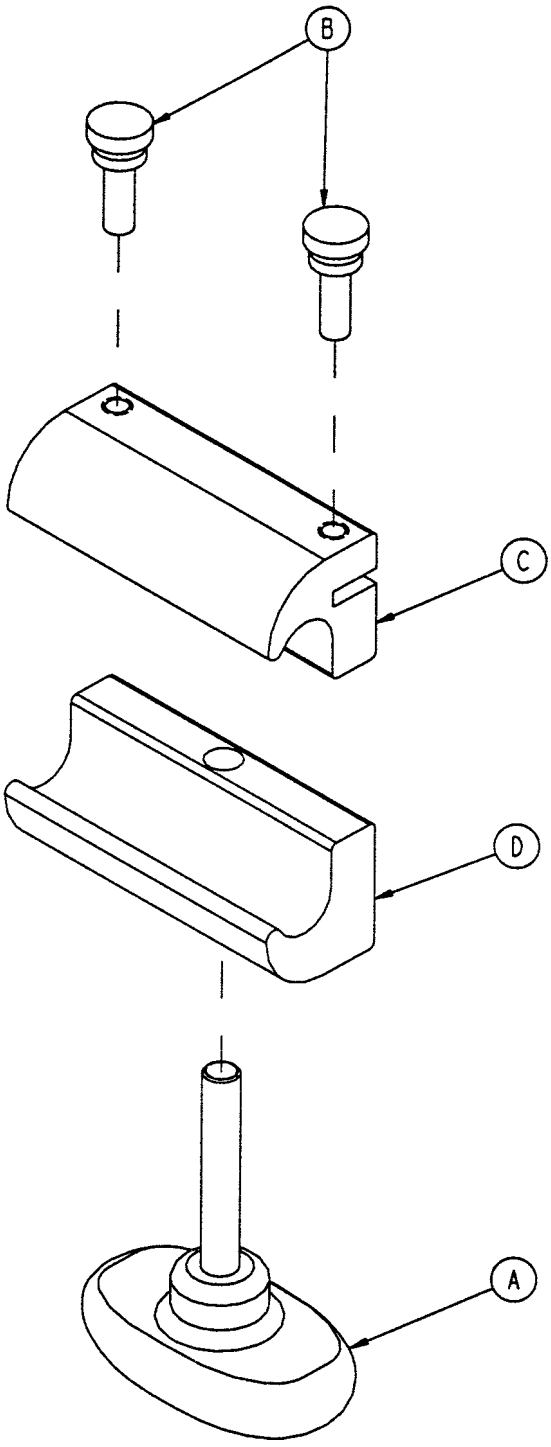
Assembly part number
2035–140–10
(reference only)



Item	Part No.	Part Name	Qty.	Item	Part No.	Part Name	Qty.
A	1–20	Flat C'sunk Hd. Mach Scr.	2	M	1010–23–28	Tray Angle	1
B	1–22	Flat C'sunk Hd. Mach Scr.	4	N	1010–23–37	Cassette Rod Guide	2
C	4–149	H. Soc. But. Hd. Cap Scr.	4	P	1020–23–16	Cassette Post Housing	1
D	14–3	Washer	1	Q	1020–23–19	Tray Hinge Wldmt., Rt.	1
E	16–3	Hex Nut	4	R	1020–23–20	Tray Hinge Wldmt., Lt.	1
F	38–122	Spring	1	S	1020–23–21	Knob	1
G	926–23–64	Tray Post	2	T	1020–23–26	Spacer	2
H	926–23–69	Cassette Washer	1	V	2025–140–2	Cassette Actuating Rod	2
J	926–23–70	Cassette Block Subass'y	1	W	2035–140–25	Specification Label	1
K	926–23–71	Cassette Bushing	1	X	2035–140–99	Cassette Tray	1
L	1010–23–19	Instruction Label	1				

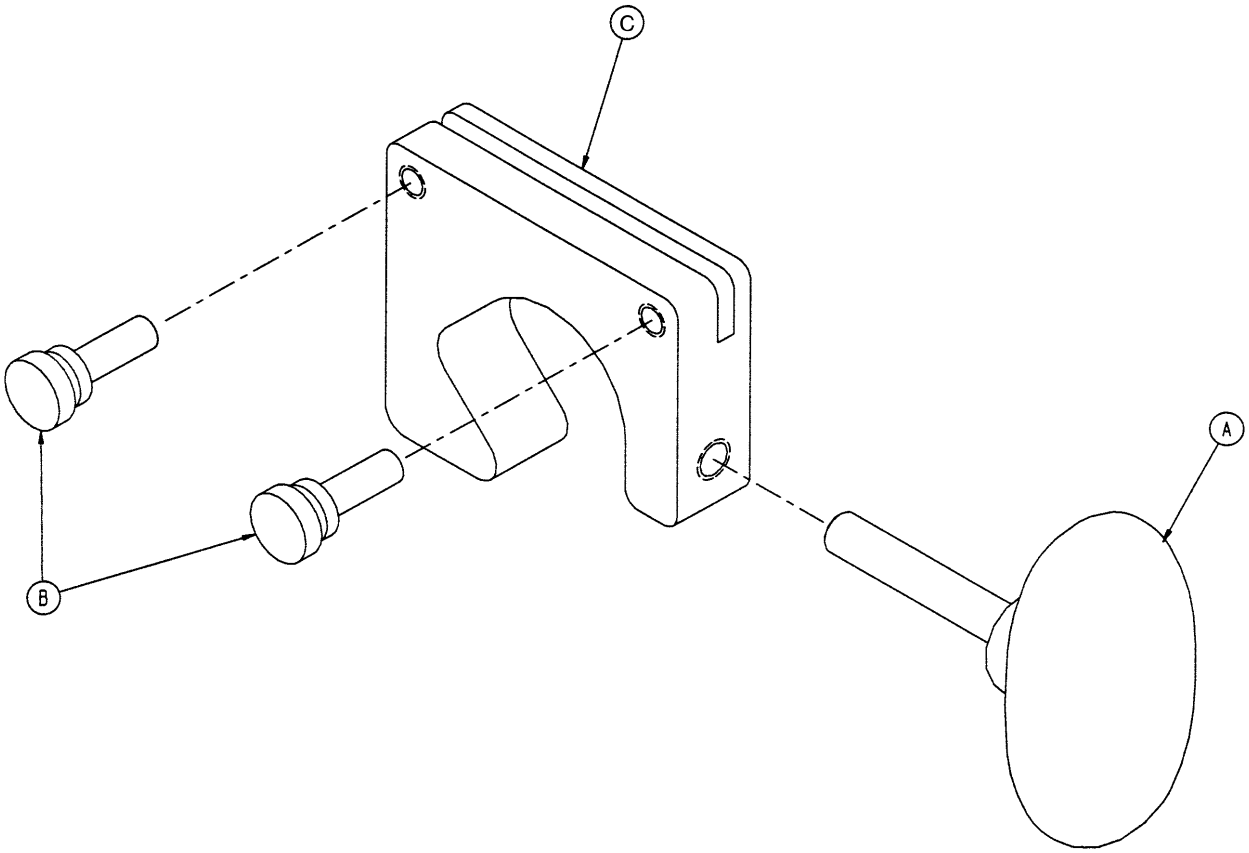
Chapter Ten Assembly Drawings and Parts Lists

2035–19–10 Optional Siderail Transducer Mount Assembly



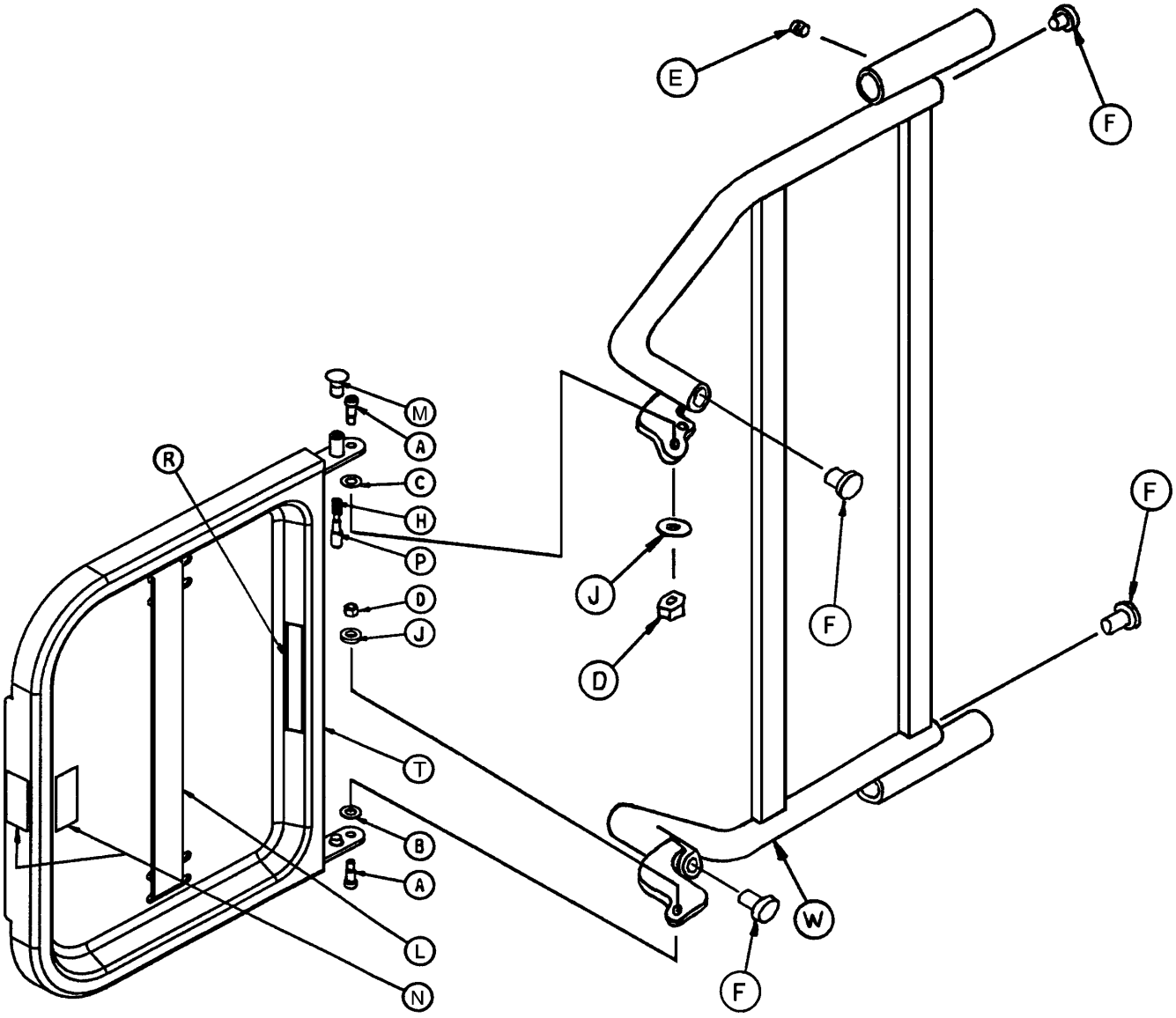
Item	Part No.	Part Name	Qty.
A	24–63	T–Knob	1
B	24–64	Thumb Screw	2
C	2035–19–11	Transducer Mount, Top	1
D	2035–19–12	Transducer Mount, Bottom	1

2035–18–10 Optional I.V. Pole Transducer Mount Assembly



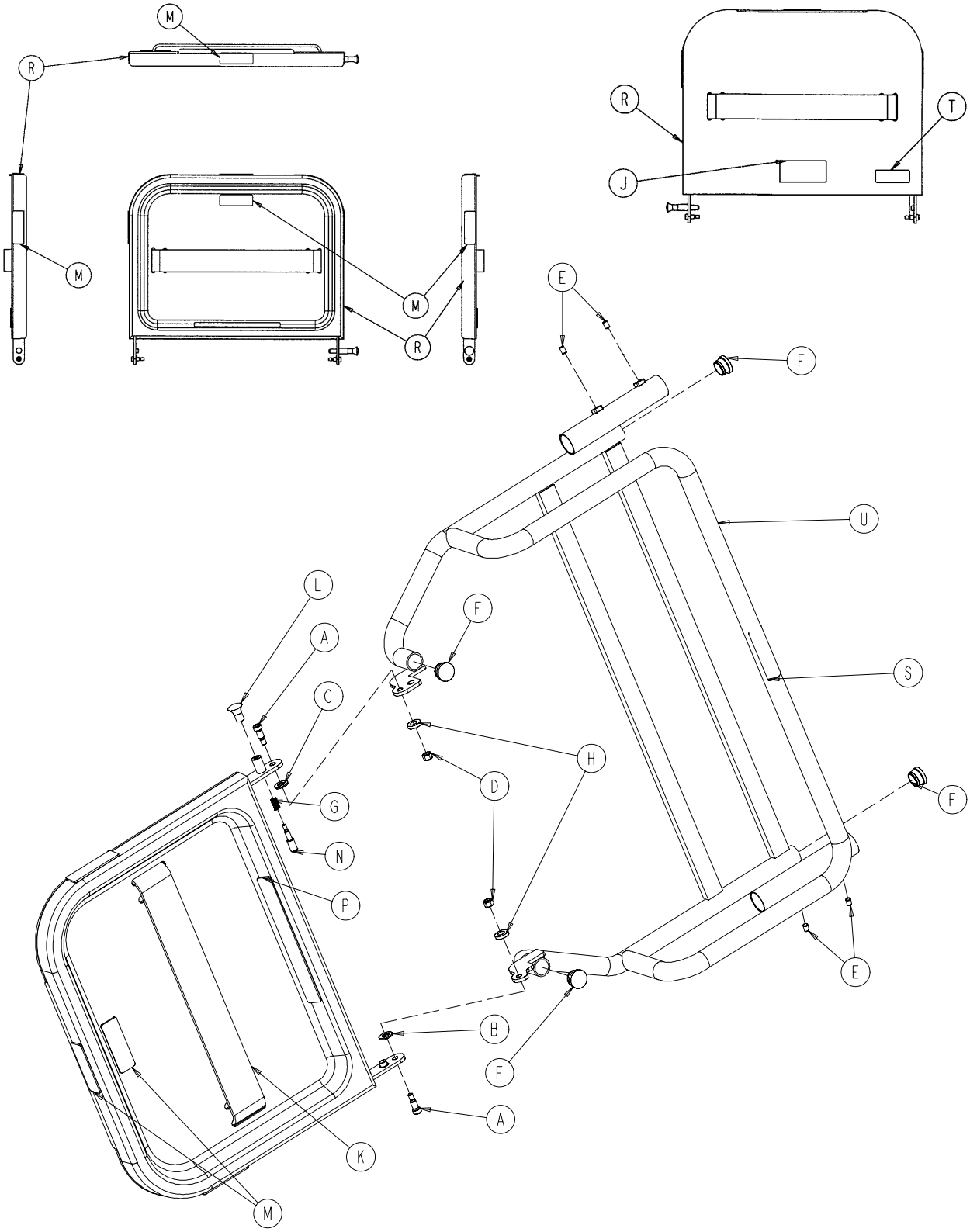
Item	Part No.	Part Name	Qty.
A	24–63	T–Knob	1
B	24–64	Thumb Screw	2
C	2035–18–11	Transducer Mount	1

2025–120 Optional Defibrillator Tray Assembly



Item	Part No.	Part Name	Qty.	Item	Part No.	Part Name	Qty.
A	8–49	Soc. Hd. Shoulder Bolt	2	L	1010–50–21	Long Strap	1
B	14–20	Thrust Washer	1	M	1010–50–50	Knob	1
C	14–21	Thrust Washer	1	N	1010–50–57	Max. Weight Label	4
D	16–28	Fiberlock Nut	2	P	1010–50–242	Lock Pin	1
E	21–17	Set Screw	4	R	2025–120–5	Equipment Label	1
F	37–214	Hole Plug	4	S	2025–120–6	Specification Label	1
H	38–133	Spring	1	T	2025–120–18	Tray Assembly	1
J	52–17	Spacer	2	W	2025–120–25	Pivot Weldment Frame	1
K	1010–50–19	“Push/Pull” Label	1				

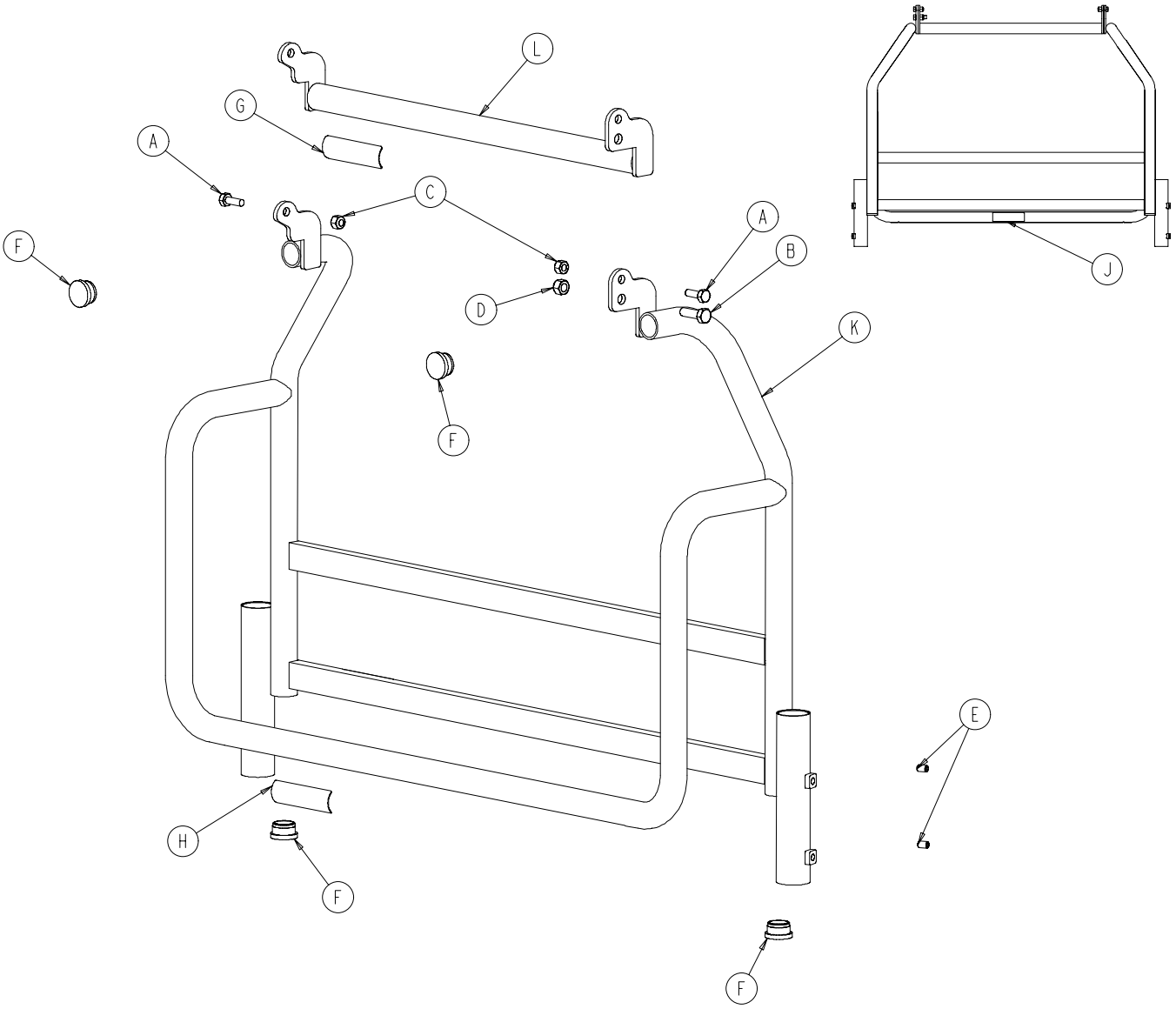
2040–120–4 Optional Pleur–Evac Rack with Defibrillator Tray



2040–120–4 Optional Pleur–Evac Rack with Defibrillator Tray

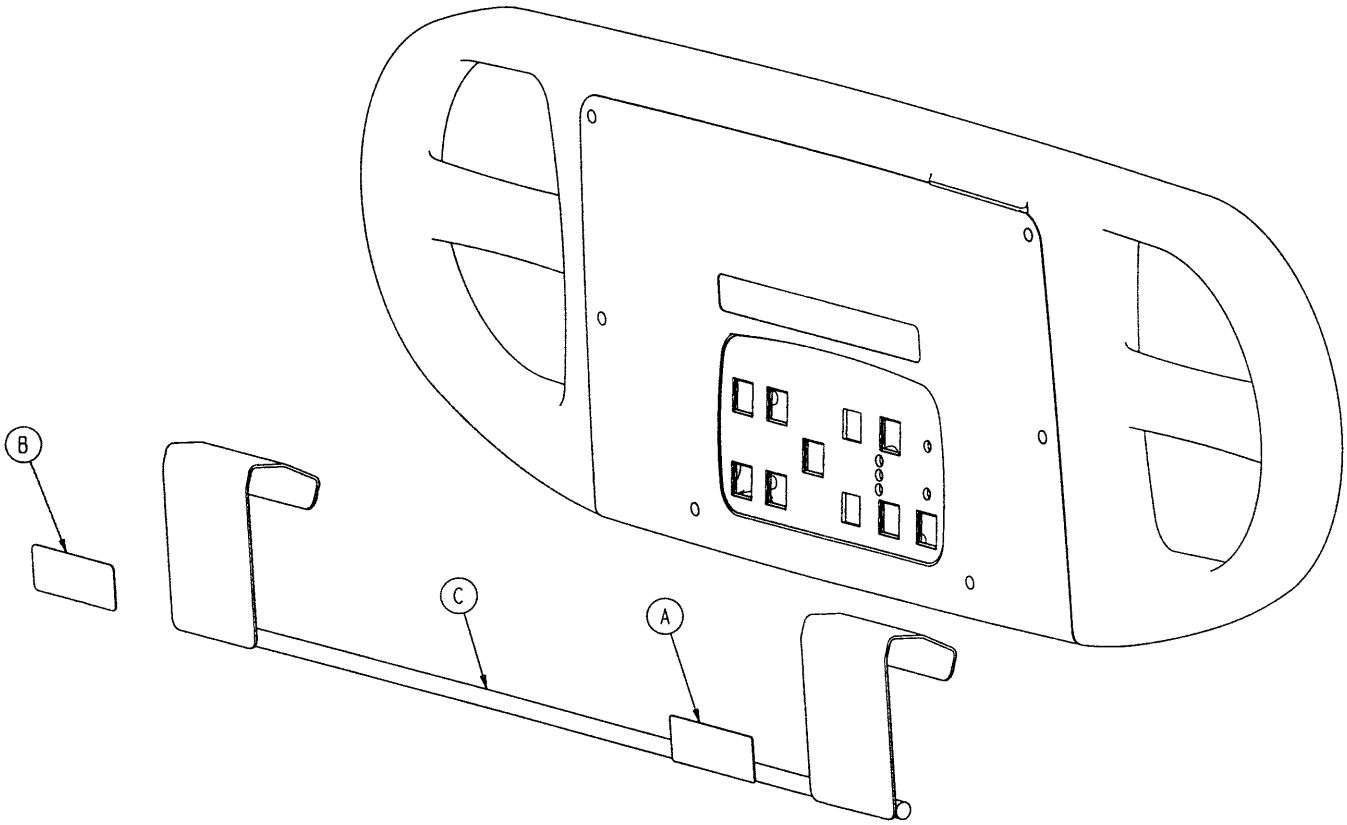
Item	Part No.	Part Name	Qty.
A	8–49	Soc. Hd. Shoulder Bolt	2
B	14–20	Thrust Washer	1
C	14–21	Thrust Washer	1
D	16–28	Fiberlock Nut	2
E	21–17	Set Screw	4
F	37–214	Hole Plug	4
G	38–133	Spring	1
H	52–17	Spacer	2
J	1010–50–19	“Push/Pull” Label	1
K	1010–50–21	Long Strap	1
L	1010–50–50	Knob	1
M	1010–50–57	“Max. Weight” Label	4
N	1010–50–242	Lock Pin	1
P	2025–120–5	Equipment Label	1
R	2025–120–18	Tray Assembly	1
S	2040–90–1	Warning Label	1
T	2040–90–5	Specification Label	1
U	2040–120–3	Rack Weldment	1

2040–120–20 Optional Pleur–Evac Rack Assembly



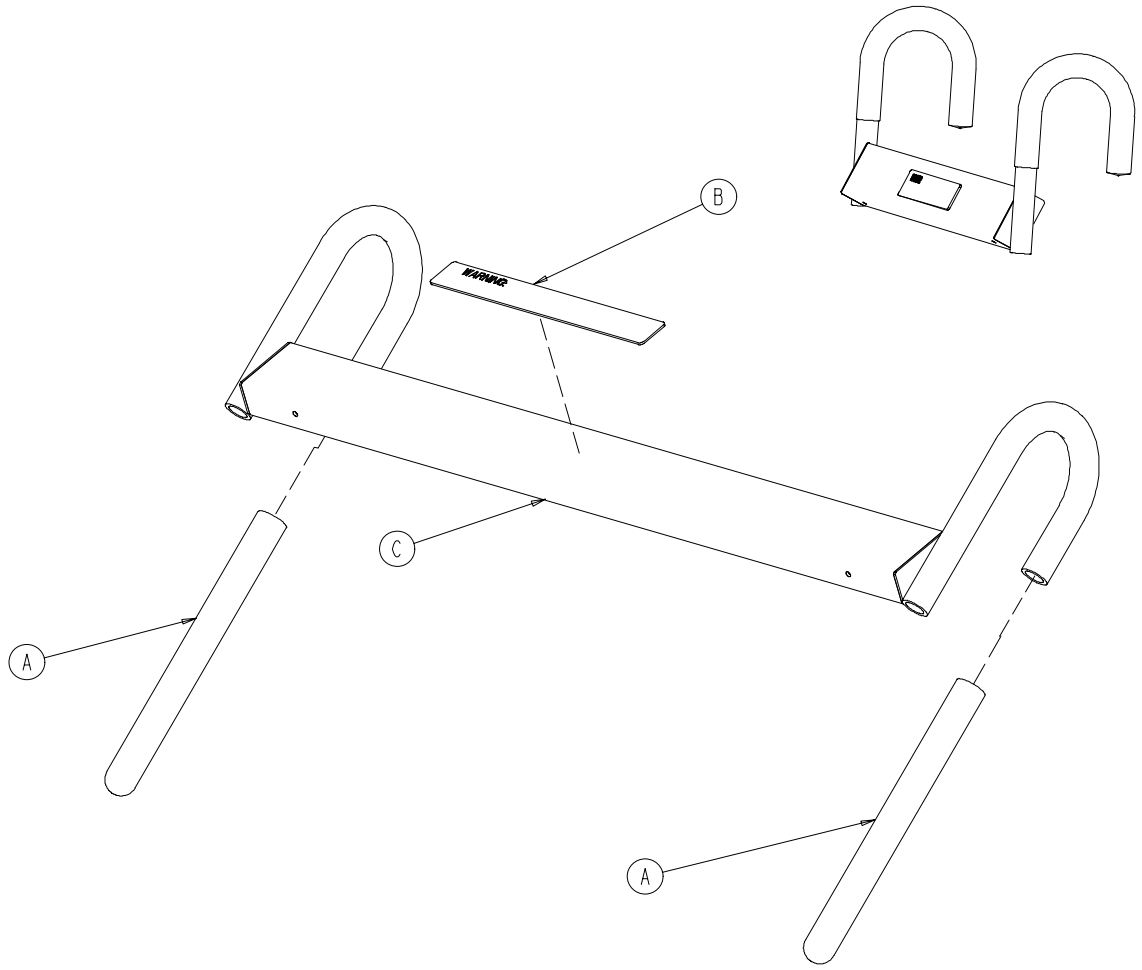
Item	Part No.	Part Name	Qty.
A	3–50	Hex Hd. Cap Screw	2
B	3–85	Hex Hd. Cap Screw	1
C	15–28	Nylock Nut	2
D	16–36	Nylock Nut	1
E	21–17	Set Screw	4
F	37–214	Hole Plug	4
G	1010–50–57	Maximum Weight Label	1
H	2040–90–1	Acc. Rail Warning Label	1
J	2040–90–4	Specification Label	1
K	2040–120–3	Rack Weldment	1
L	2040–120–10	Rack Top Weldment	1

2040–120–9 Optional Siderail Pleur–Evac Rack Assembly



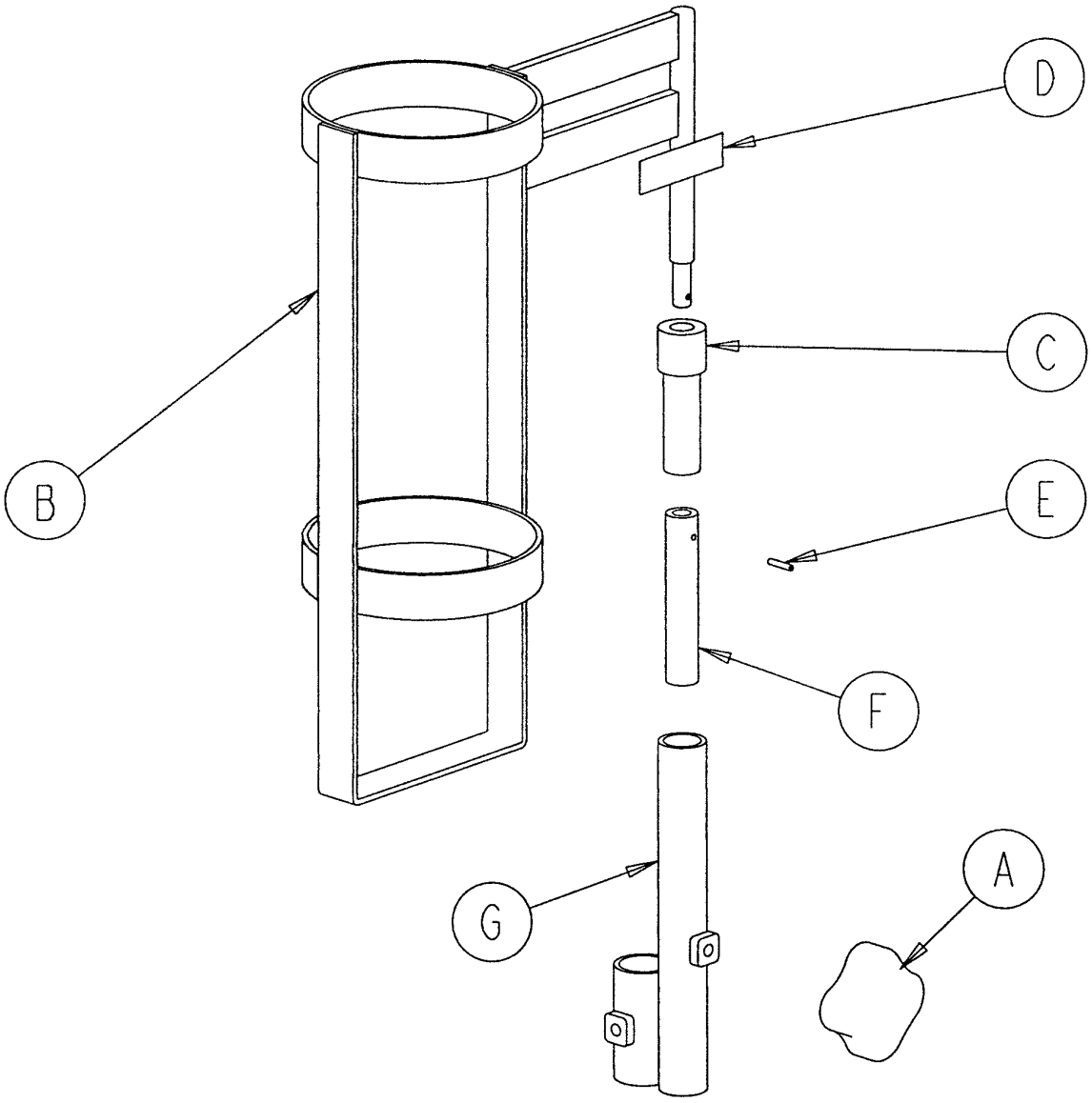
Item	Part No.	Part Name	Qty.
A	2040–90–1	Warning Label	1
B	2040–90–2	Maximum Weight Label	1
C	2040–120–8	Rack Weldment	1

2040–111 Optional Pump Rack Assembly



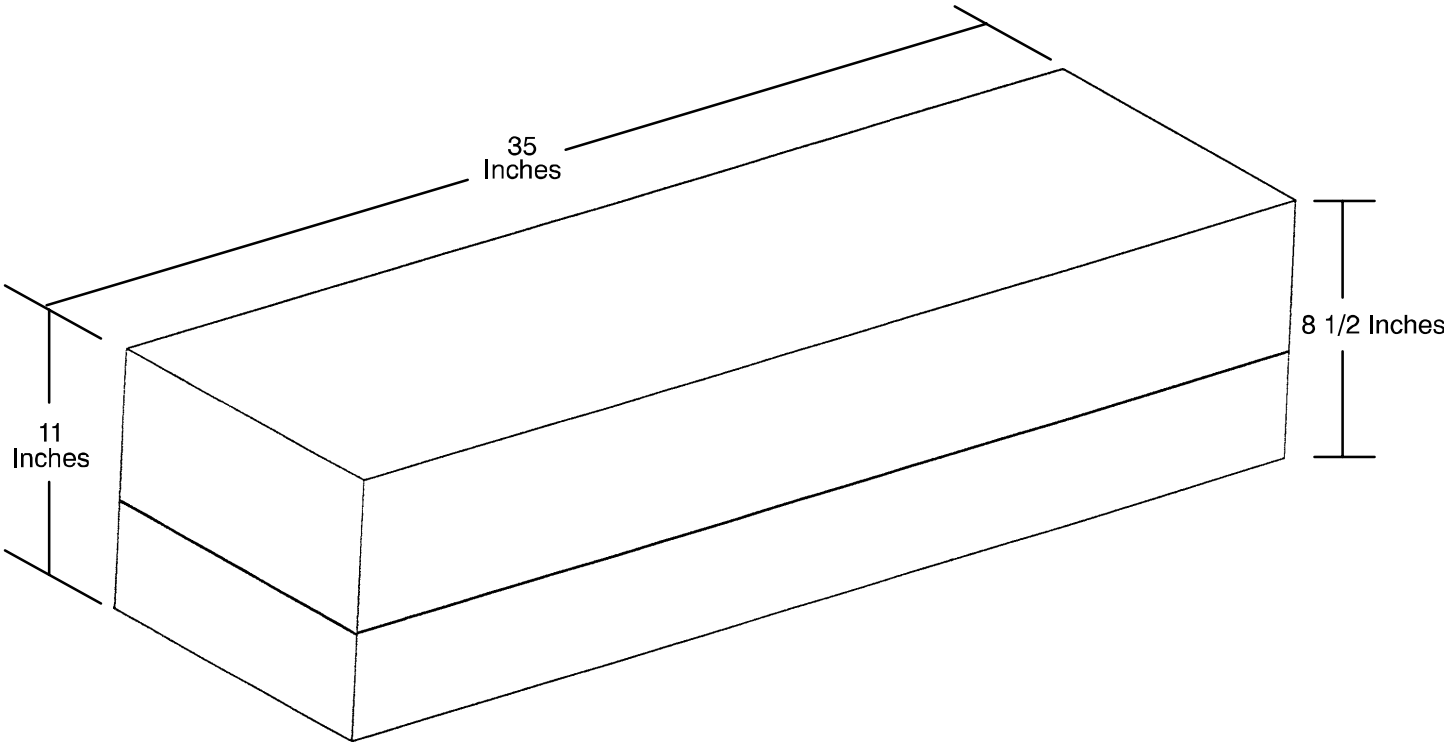
Item	Part No.	Part Name	Qty.
A	58–87	End Cap	2
B	2030–140–2	Pump Rack Label	1
C	2040–111–5	Pump Rack Tube	1

040–150–10 Optional Upright Oxygen Bottle Holder Assembly

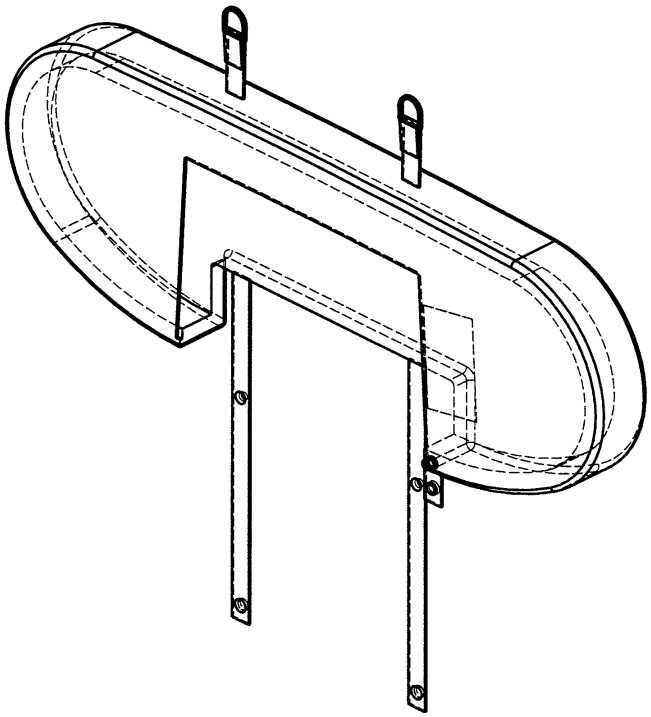


Item	Part No.	Part Name	Qty.
A	24–55	Knob	1
B	1010–30–11	Upright Bottle Holder	1
C	2025–150–1	Adaptor Sleeve	1
D	2025–150–2	Specification Label	1
E	26–5	Spring Pin	1
F	2025–150–3	End Stop Bushing	1
G	2040–110–2	Hd. End Dual I.V. Pole Collar	1

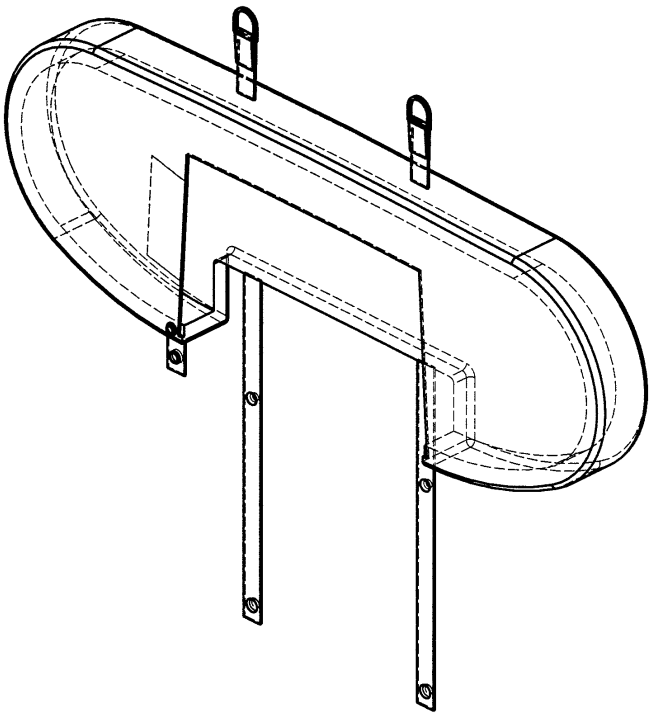
2025–40–10 Optional Bed Extender Pad Assembly



2040–130 Optional Siderail Pad Set



3000–336–11 Right Siderails



3000–336–12 Left Siderails

European Representative

Stryker France
BP 50040–95946 Roissy Ch. de Gaulle
Cedex–France

Phone: 33148632290
Fax: 33148632175

stryker® Medical

6300 Sprinkle Road, Kalamazoo, MI 49001–9799

(800) 327–0770
www.med.strykercorp.com

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