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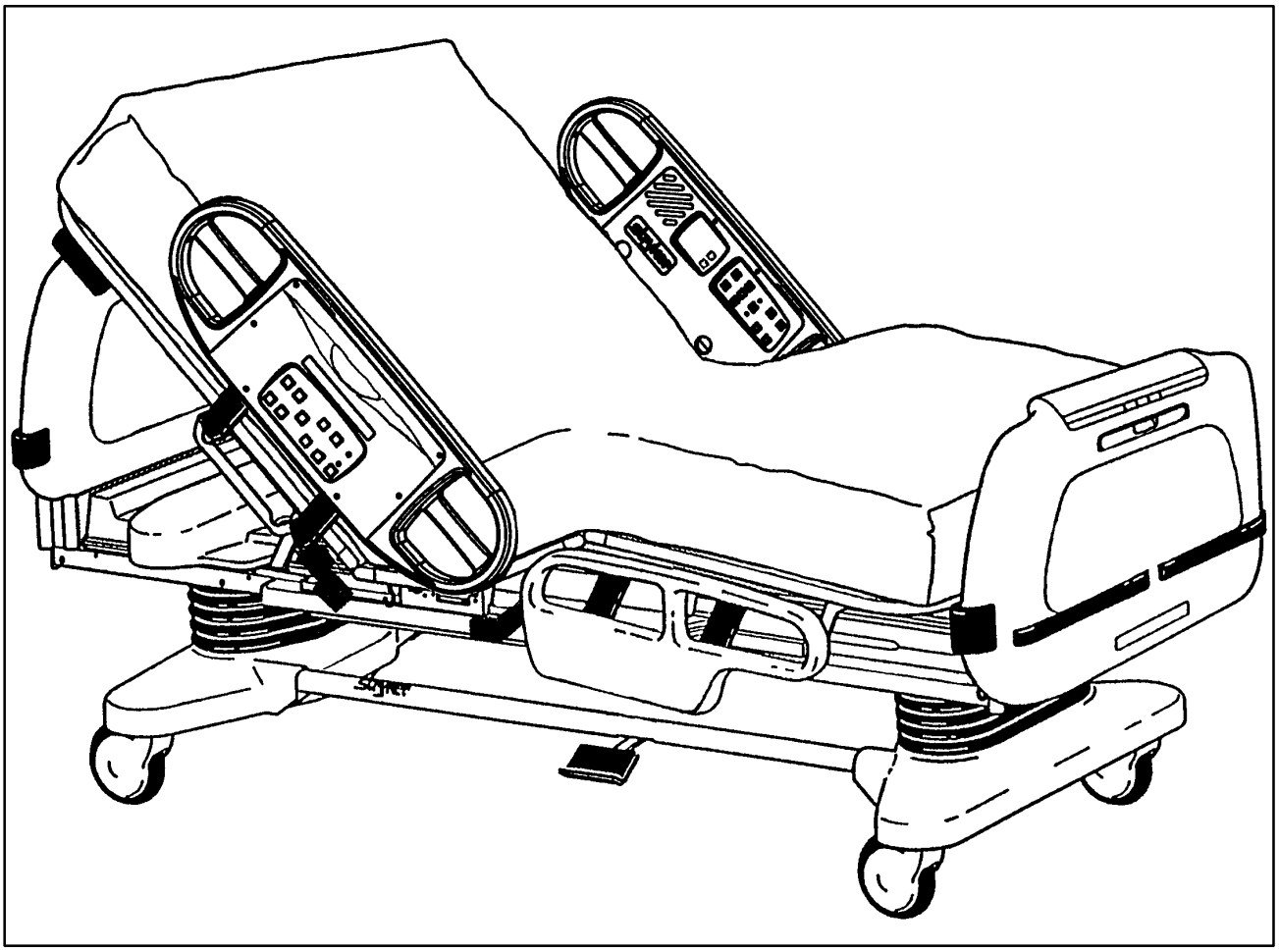

Secure 3000 Bed

MAINTENANCE MANUAL

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

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INTRODUCTION

This manual is designed to assist you with the maintenance of the Secure 3000 Bed. Read it thoroughly before beginning any maintenance on the equipment.

SPECIFICATIONS

Maximum Weight Capacity	500 pounds (227 kilograms)
Overall Bed Length/Width	93” / 42–1/2”
Patient Sleep Surface	84” / 35”
Bed Height (to top of seat litter)	16” / 29–1/2”
Knee Gatch Angle	0° to 40°
Fowler Angle	0° to 60°
Trendelenburg/Reverse Trendelenburg	–11° to +11°
Weigh System Accuracy (optional equipment)	± 1% of total patient weight while the bed is level and up to a 4° or –4° angle ± 3% of total patient weight from 5° to 11° angle or –5° to –11° angle
Electrical Requirements – all electrical requirements meet UL 544 specifications.	110 VAC, 60 Hz, 10.0 Amp.

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 important instructions clearer.

SAFETY TIPS AND GUIDELINES

Before operating the Secure Bed, it is important to read and understand all information in this manual. Carefully read and strictly follow the safety guidelines listed on this page.

It is important that all users have been trained and educated on the inherent hazards associated with the usage of electric beds.

WARNING

- The Secure 3000 Bed is not intended for use with patients less than two years of age.
- Powered bed mechanisms can cause serious injury. Operate bed only when all persons are clear of the mechanisms.
- To help reduce the number and severity of falls by patients, always leave the bed in the lowest position when the patient is unattended.
- Leave the siderails fully up and locked when the patient is unattended. When raising the siderails, listen for the ”click” that indicates the siderail has locked in the up position. Pull firmly on the siderail to ensure it is locked into position.
  Siderails are not intended to be a patient restraint device. It is the responsibility of the attending medical personnel to determine the degree of restraint necessary to ensure a patient will remain safely in bed.
- Always keep the caster brakes applied when a patient is on the bed (except during transport). Serious injury could result if the bed moves while a patient is getting in or out of bed. After the brake pedal is applied, push on the bed to ensure the brakes are locked. When moving the bed, toggle the steer pedal to put the bed in the steer mode. This locks the swivel motion of the right foot end caster and makes the bed easier to move.
- When large spills occur in the area of the circuit boards, 110 volt cables and motors, immediately unplug the bed power cord from the wall socket. Remove the patient from the bed and clean up the fluid. Have maintenance completely check the bed. Fluids can affect the operational capabilities of any electrical product. DO NOT put the bed back into service until it is completely dry and has been thoroughly tested for safe operation.
- Do not steam clean or hose off the bed. Do not immerse any part of the bed. The internal electric parts may be damaged by exposure to water. Hand wash all surfaces of the bed with warm water and mild detergent. Dry thoroughly. 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 care equipment, measures must be taken to insure the beds are wiped 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. Failure to follow the above directions when using these types of cleaners 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.)
- Preventative maintenance should be performed at a minimum of biannually to ensure all bed features are functioning properly. Close attention should be given to safety features including, but not limited to: safety side latching mechanisms, frayed electrical cords and components, all electrical controls return to off or neutral position when released, caster braking systems, no controls or cabling entangled in bed mechanisms, leakage current 100 MA maximum, scale and bed exit systems calibrated properly.
- Always unplug bed during service or cleaning. When working under the bed with the bed in the high position, always place blocks under the litter frame and set the brakes to prevent injury in case the Bed Down switch is accidently pressed.

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 either: one (1) year parts and labor **or** two (2) years for parts only, after date of delivery. Stryker's obligation under this warranty is expressly limited to supplying replacement parts 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 beds will be free from structural defects for as long as the original purchaser owns the bed. 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.

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.

Extended Warranty Coverage:

Stryker offers warranties to provide an extension of the above stated warranty, that are available upon the purchase of the Model 3000 Bed.

Covered under these warranties:

- All replacement parts, as set forth in the limited warranty statement above (excluding mattresses and consumable items)
  NOTE: mattresses carry a separate warranty plan. Refer to mattress documentation.
- Labor and Travel for all scheduled and unscheduled calls (if labor option is chosen).

The following extended options are available at a nominal charge:

- 3 years parts – no labor (1 year extension to standard 2 year parts warranty).
- 4 years parts – no labor (2 year extension to standard 2 year parts warranty).
- 5 years parts – no labor (3 year extension to standard 2 year parts warranty).

- 2 years parts and labor (1 year extension to standard 1 year parts and labor warranty).
- 3 years parts and labor (2 year extension to standard 1 year parts and labor warranty).
- 4 years parts and labor (3 year extension to standard 1 year parts and labor warranty).
- 5 years parts and labor (4 year extension to standard 1 year parts and labor warranty).

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. Stryker Customer Service must be notified immediately. Stryker will aid the customer in filing 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.

Service Contract Coverage (Optional):

Stryker has developed a comprehensive program of service contract 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 contract coverages at a nominal fee:

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

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

Replacement Parts List

ELECTRICAL COMPONENTS

LITTER CPU (SCALE AND BED EXIT)	3001–307–910
LITTER CPU (NON–SCALE)	3001–300–900
POWER BOARD	3001–300–910
SERIAL IFC	3000–300–965
HEADWALL IFC	3001–303–900
DMS POWER SUPPLY	3000–302–939
FOOT BOARD KEYBOARD (S/R LIGHTS, LOCKOUTS, ETC.)	3001–500–900
FOOT BOARD SCALE DISPLAY	3001–507–900
FOOT BOARD SCALE KEYBOARD	3001–507–910
FOOT BOARD BED EXIT KEYBOARD	3001–508–900

SIDERAIL BOARDS

INSIDE BOARD	3001–400–900
OUTSIDE BOARD	3001–400–910
DMS BOARD	3001–402–900
SPEAKER W/CABLE	3000–403–831

OTHER COMPONENTS

FOWLER MOTOR W/CLUTCH	3001–300–703
KNEE MOTOR	3001–300–435
LIFT MOTOR (SAME FOR HEAD AND FOOT END)	3000–200–213
LIFT CAPACITOR	3000–200–243
KNEE CAPACITOR	3000–300–401
FOWLER CAPACITOR	3000–300–453
HEAD END POTENTIOMETER	3000–200–807
FOOT END POTENTIOMETER	3000–200–806
LIFT POWER COIL CORD	3001–200–804
LIFT SENSOR COIL CORD	3001–200–805
LITTER POWER COIL CORD	3001–300–822
LITTER SIGNAL COIL CORD	3001–300–824
LOAD CELL	3001–307–53
“IMITATION” LOAD CELL	3001–300–511
POWER CORD	3000–300–820
6” CASTER	3000–200–30
6” STEER CASTER	3000–200–16
MOLDED SIDERAIL (HEAD)	3001–400–515
MOLDED SIDERAIL (FOOT)	3000–400–520
HEAD BOARD	3000–600–000
FOOT BOARD	3001–500–10
SINGLE TUBE OF GREASE	3000–200–700

CLEANING

Hand wash all surfaces of the bed with warm water and mild detergent. Dry thoroughly.

CAUTION

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

CAUTION

Do not steam clean or hose off the Secure 3000. Do not immerse any part of the bed. Some of the internal parts of the bed are electric and may be damaged by exposure to water.

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 with Staph–Chek fabrics. Iodophor type disinfectants are not recommended for use on Staph–Chek fabrics because staining may result. The following products have been tested by the Herculite Laboratory and have been found not to have a harmful effect on Staph–Chek fabrics 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

REMOVAL OF IODINE COMPOUNDS

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

CHECKLIST (PERFORM A MINIMUM OF TWICE A YEAR)

_____ All fasteners secure (reference all assembly prints)
_____ All casters lock with brake pedal engaged
_____ ”Brake Not Set” LED (on foot board) blinks when brakes are not engaged
_____ Locking steer caster engages and disengages properly
_____ Siderails move, latch and stow properly
_____ CPR release working properly
_____ Foot prop intact and working properly
_____ I.V. pole working properly
_____ Foley bag hooks intact
_____ Optional chart rack intact and working properly
_____ Optional CPR board not cracked or damaged and stores properly
_____ No cracks or splits in head and foot boards
_____ No rips or cracks in mattress cover
_____ All functions on head end siderails working properly (including LED’s)
_____ All functions on footboard working properly (including LED’s)
_____ Scale and Bed Exit system calibrated properly
_____ Motion Interrupt switches working properly
_____ Optional night light working properly
_____ Power cord not frayed
_____ No cables worn or pinched
_____ All electrical connections tight
_____ All grounds secure to the frame
_____ Ground impedance not more than 100 milliohms
_____ Current leakage not more than 100 microamps
_____ Apply grease to litter grease points

Bed Serial No. _____ _____

_____ _____

_____ _____

_____ _____

Completed By:_____ Date:_____

SET–UP PROCEDURES

It is important that the Secure 3000 Bed is working properly before it is put into service. The following list will help ensure that each part of the bed is tested.

- Plug the bed into a properly grounded, hospital grade wall receptacle and ensure the ”Power” LED light at the foot end of the bed comes on.

WARNING

The 3000 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.

- Plug the optional interface cable into the 37 pin connector under the litter frame at the head end of the bed, and into the ”Patient Station”, ”Head Wall”, ”Docker Station”, or equivalent (whichever applies). Test the interface cable to verify it is functioning properly.

WARNING

Use only a Stryker supplied interface cable. Use of any other cable may cause the bed to function improperly which may result in patient or user injury.

- Ensure the siderails raise, lower and store smoothly and lock in the up and intermediate positions (page 18).
- Ensure that all four casters lock when the brake pedal is engaged (page 13).

NOTE

Ensure that the ”Brake Not Set” LEDs located on the outside of the head end siderails and on the foot board control panel come on when the brakes are disengaged.

- Run through each function on the foot board control panel to ensure that each function is working properly (page 22–24).
- Run through each function on both head end siderails to ensure that each is working properly (page 19–21).
- Activate the motion stop system to ensure it is functioning properly: press and hold down the BED DOWN key. As the bed lowers, lift up on the motion interrupt pan (page 12) and ensure the downward motion stops. Release the pan and allow the downward motion to continue.

NOTE

The bed’s upward motion or other functions are not disrupted by the motion stop system.

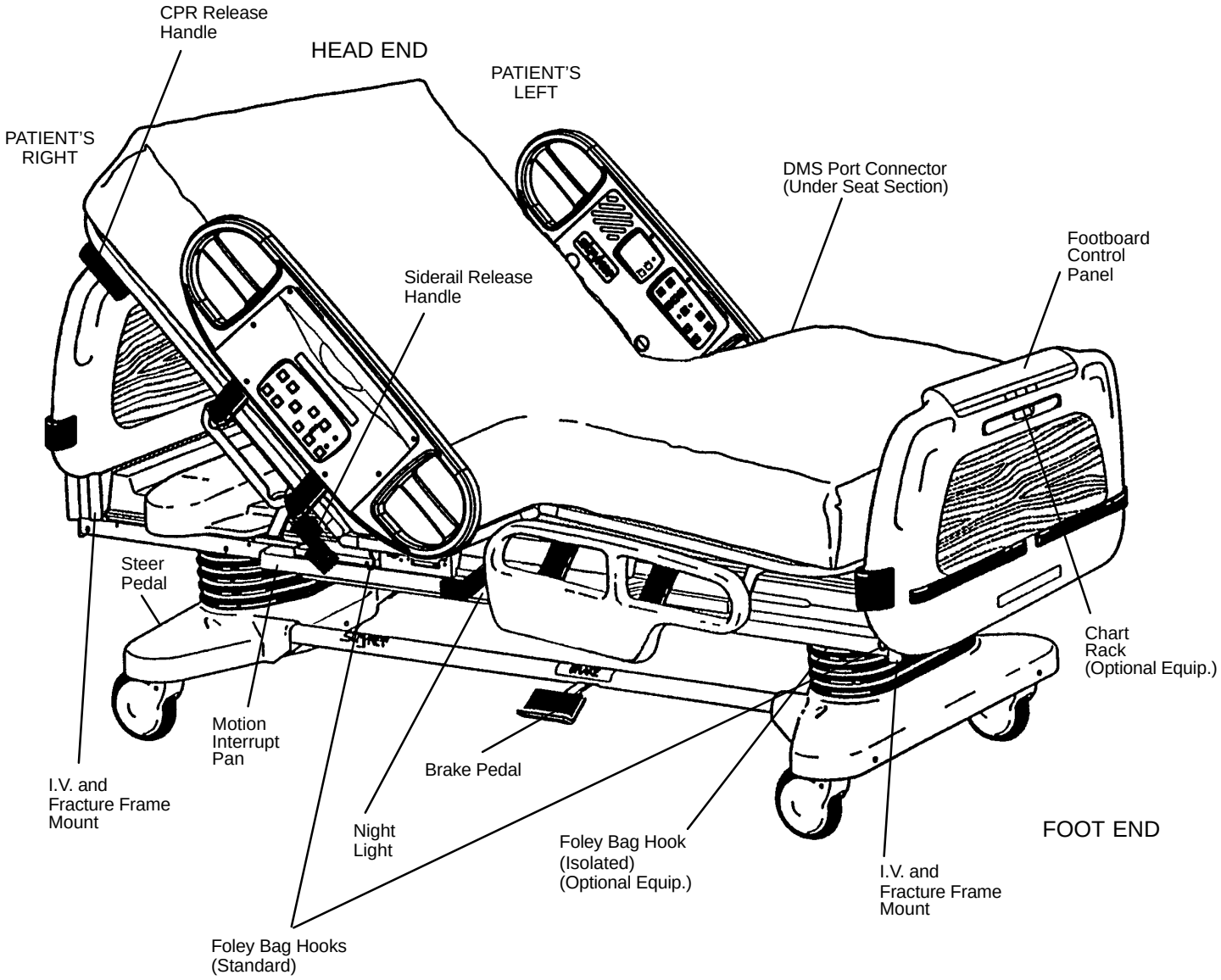
If any problems are found during bed set–up, contact Stryker Customer Service at 800–327–0770.

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. Stryker Customer Service must be notified immediately. Stryker will aid the customer in filing 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.

Bed Illustration



BRAKE PEDAL OPERATION

WARNING
Before putting a patient on the bed, be sure the brakes are fully engaged.

To activate the brakes, push down once on the pedal identified by the label at right (located at the midpoint of the bed on both sides). To disengage, push down once.

NOTE
There are LED lights on the outside of the head end siderails and on the foot end control panel that will blink when the brakes are not engaged only if the bed is plugged into a wall socket (see pages 21 & 22). The brakes will still operate properly when the bed is not plugged in.

STEER PEDAL OPERATION

The purpose of the steer caster is to help guide the bed along a straight line and to help with pivoting at corners when the bed is moved.

To activate the steer caster, move the pedal located at the head end of the bed to your left as shown on the label.

NOTE
For proper ”tracking” of the steer caster, push the bed approximately 10 feet to allow the wheels to face the direction of travel before engaging the steer pedal. If this is not done, proper ”tracking” will not occur and the bed will be difficult to steer.

CPR EMERGENCY RELEASE USAGE

When quick access to the patient is needed, and the Fowler is raised, squeeze one of the two red release handles (see illustration, page 12) and the Fowler can be guided down to a flat position.

NOTE

The handle can be released at any time to stop the Fowler from lowering.

FOLEY BAG HOOKS USAGE, STANDARD AND ISOLATED (Isolated Optional Equipment)

The standard Foley bag hooks are found at two locations on both sides of the bed, under the frame rail below the seat section and at the extreme foot end of the bed.

NOTE

The patient weight reading on the bed scale system will be affected by using the standard Foley bag hooks.

The optional isolated Foley bag hooks are located under the litter frame at the top of the foot end bellows.

CAUTION

The Foley bag hooks move when the Fowler is raised or lowered. Fowler motion must be locked out when using these hooks to avoid inadvertent movement of the hooks.

NOTE

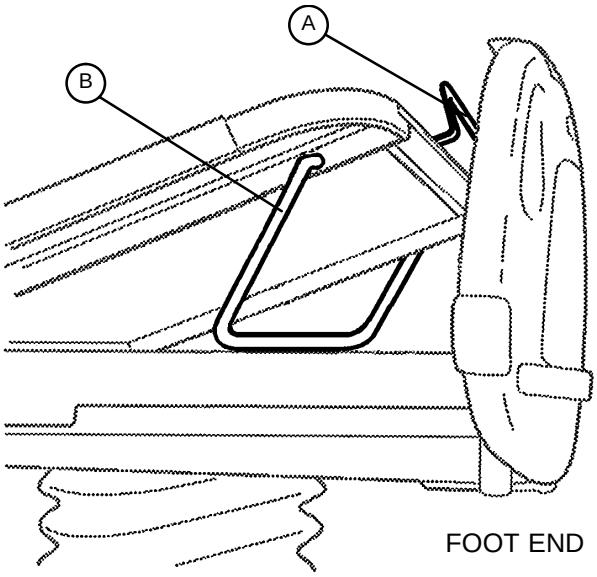
The patient weight reading on the bed scale system will not be affected by usage of the isolated Foley bag hooks.

FOOT PROP USAGE

To prop the foot end of the Knee Gatch up, grasp the handle (A) at the end of the Knee Gatch and lift upward, allowing the latch arm to engage at the desired height. To release the prop, (B) lift up on the handle (A) and swing the foot prop (B) toward the head end of the bed to disengage the hinge and allow the foot end to lower.

WARNING

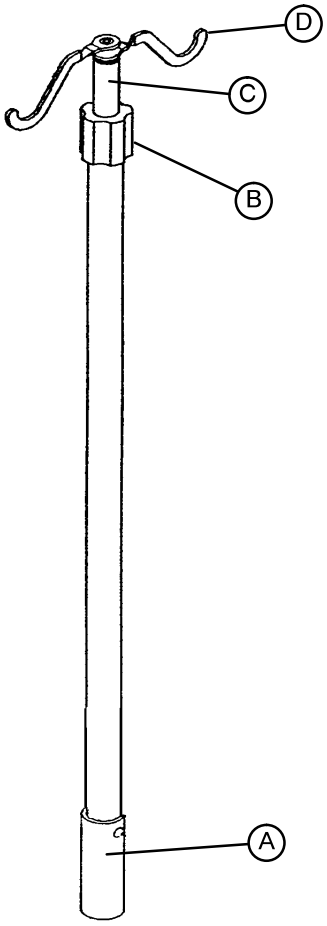
The purpose of the foot prop is to elevate a patient's feet. To avoid injury while cleaning or servicing under the foot section, secure the foot section with string or bungee cords or hold it up out of the way.



FRACTURE FRAME USAGE

A standard fracture frame can be mounted on the bed using the I.V. sockets located on all four corners of the bed. I.V. poles can be used in conjunction with a fracture frame if I. V. pole adaptor sockets are purchased.

I.V. POLES



To use the Permanently Attached I.V. pole (optional equipment):

1. Lift and pivot the pole from the storage position and push down until it is locked into receptacle (A).

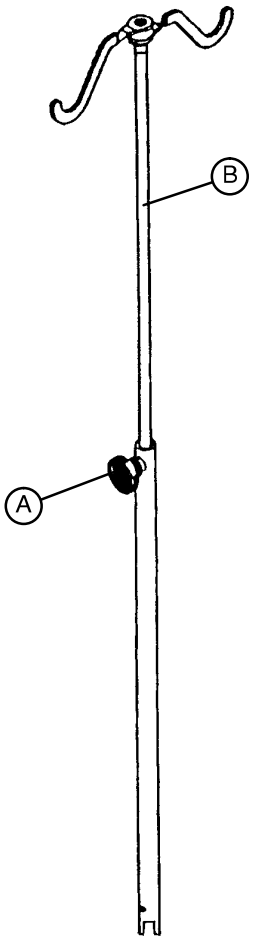
2. To raise the height of the pole, turn the lock actuator (B) counter–clockwise and pull up on the telescoping portion (C) of the pole to raise it to the desired height.

3. Turn the lock actuator (B) clockwise to lock the telescoping portion in place.

4. Rotate the I.V. hangers (D) to desired position and hang I.V. bags.

CAUTION

The weight of the I.V. bags should not exceed 40 pounds.



To use the ”Removable” I.V. pole (optional equipment):

1. Remove the pole from its storage position located at the foot end of the bed, under the foot board, or at the left side of the bed below the litter.

2. Install the pole at any of the six receptacles on the bed top (located on all four corners of the bed and at the midpoint of the bed, on both sides.)

3. To raise the height of the pole, turn knob (A) counterclockwise and pull up on the telescoping portion (B) of the pole and raise it to the desired height.

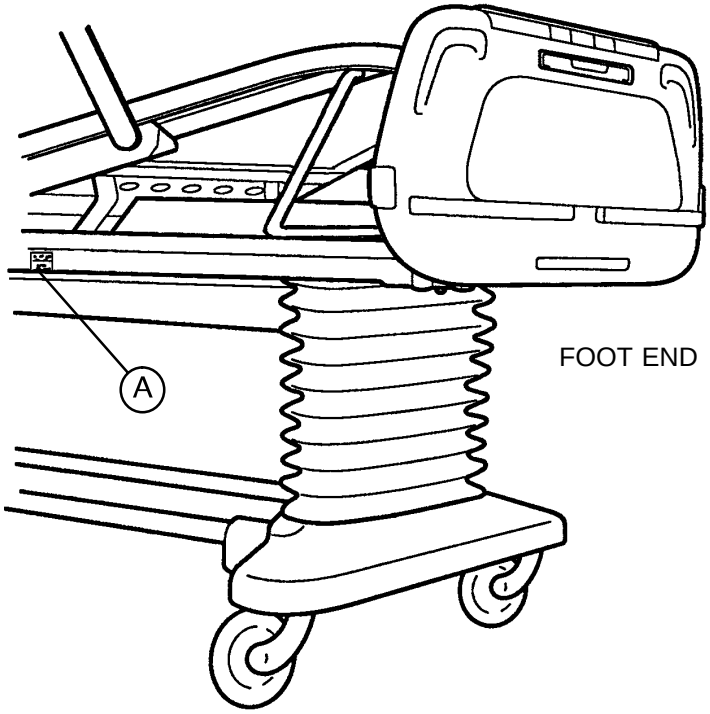
4. Turn knob (A) clockwise to tighten the telescoping portion in place.

CAUTION

The weight of the I.V. bags should not exceed 40 pounds.

NIGHT LIGHT USAGE (Optional Equipment)

The bed may be equipped with an optional night light (A) that will illuminate the floor area around the bed. The light has three settings: LOW–OFF–HIGH



PATIENT RESTRAINT STRAP LOCATIONS

The bed is equipped with 12 separate locations for installing patient restraint straps. The ”cutouts” in the bed top are located directly across from each other (on both sides of the bed).

WARNING

Improperly adjusted restraint straps can cause serious injury to a patient. The clinician must use her/his judgement to determine proper use of restraint straps and restraint strap locations.

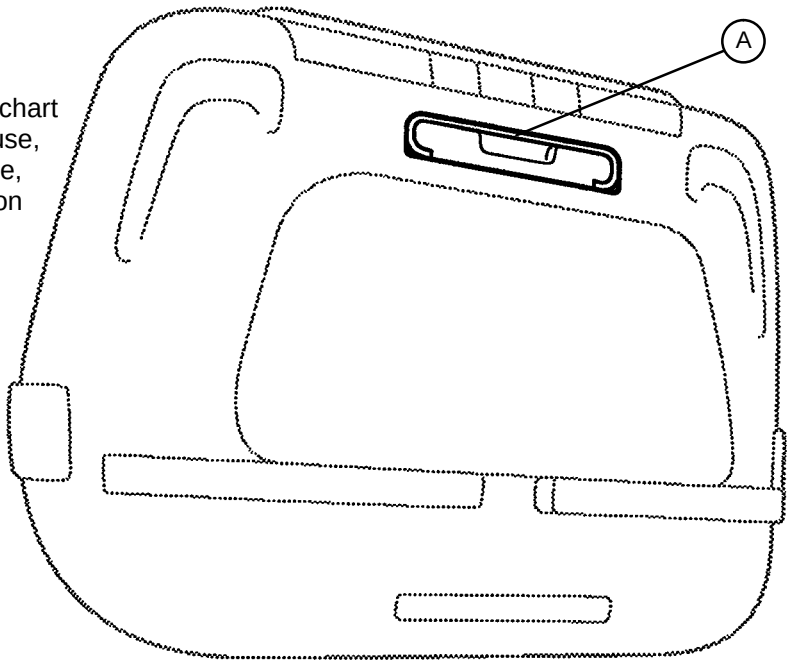
Clean Velcro **AFTER EACH USE**. Saturate Velcro with disinfectant and allow disinfectant to evaporate. (Appropriate disinfectant for nylon Velcro should be determined by the hospital.)

CHART RACK USAGE (Optional Equipment)

If the bed is equipped with the optional chart rack, it is located on the foot board. To use, pull handle rod (A) downward. To store, push the handle back to its storage position until it locks in place.

CAUTION

Do not use the handle rod (A) as a device for pulling the bed. Doing so may cause damage to the chart rack and foot board.



FOOT BOARD

CPR BOARD USAGE (Optional Equipment)

If the bed is equipped with the optional CPR board, it is stored on the bed's head board. To remove, pull away from the head board and lift out of storage position. If the CPR board option was not purchased, the head board can also be removed and used as an emergency CPR board.

POSITIONING SIDERAILS

NOTE

The siderails can be locked at two heights (intermediate & full).

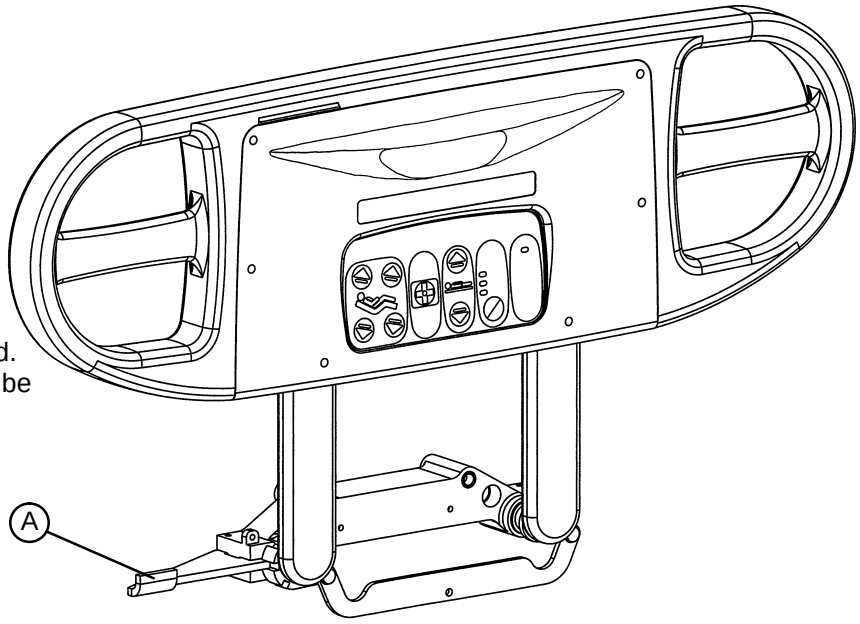
The siderails can be tucked away under the bed when not in use. To remove the rail from the tucked position, grasp the top of the rail and pull outward.

To engage the head end siderail, grasp the rail and swing it upward toward the head end of the bed until it rests in the ”intermediate” position. To continue to full height, push in the blue release handle (A) and rotate the siderail until full height is reached.

To engage the foot end siderail, grasp the rail and swing it upward toward the foot end of the bed.

WARNING

Be sure rail is locked securely into position. Siderails are not intended to keep patients from exiting the bed. They are designed to keep a patient from inadvertently rolling off the bed. Proper restraint methods should be utilized to ensure the patient remains in bed. The siderails are not intended to be used as a push device.



To disengage the rail, push in the blue release handle (A) and swing rail down to desired height. Tuck away siderails by pushing the rails under the bed. Rails must be in the full down position before they can be tucked.

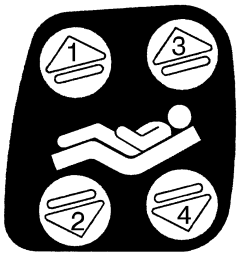
SIDERAIL CONTROL PANEL LIGHTS

The bed is equipped with lights to illuminate the head end siderail control panel and the red nurse call switches. Both can be activated at the foot board control panel. Three settings are available for the control panel lights: low, medium and high intensity. When all lights are off, push the siderail control light button at the foot board once to turn on both the control lights and the nurse call light at the siderail. Push again to change from low to medium setting, and a third time to change to the high setting. The nurse call light intensity is not affected. Pushing the button a fourth time will turn off the siderail control panel lights and pushing it a fifth time will turn off the red nurse call light as well (see control panel guide page 22).

CAUTION

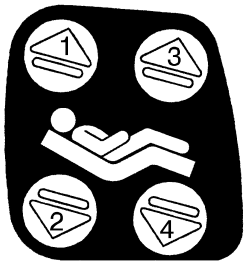
The purpose of the red nurse call light on the siderails is to ensure the patient has immediate understanding of where to push to contact the nurse station. Turning this light off will compromise this ability, especially in a darkened room.

INSIDE SIDERAIL FUNCTION GUIDE



(Patient's Right Rail)

1. Push to raise Knee Gatch.
2. Push to lower Knee Gatch.
3. Push to raise Fowler.
4. Push to lower Fowler.



(Patient's Left Rail)

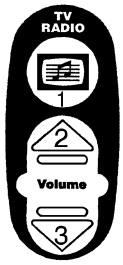
1. Push to raise Fowler.
2. Push to lower Fowler.
3. Push to raise Knee Gatch.
4. Push to lower Knee Gatch.

1. Push to activate Nurse Call.

NOTE

Yellow LED will light when button is pushed. Red LED will light with Nurse Station acknowledgment.

▶ This panel is optional equipment.

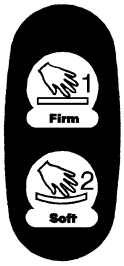


1. Push to turn TV or radio on and to select a channel.

2. Push to increase volume.

3. Push to decrease volume.

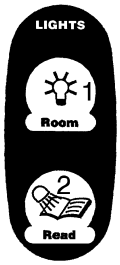
▶ This panel is optional equipment.



1. Push to increase firmness of mattress

2. Push to decrease firmness of mattress.
(See page 21 for system instructions).

▶ This panel is optional equipment.

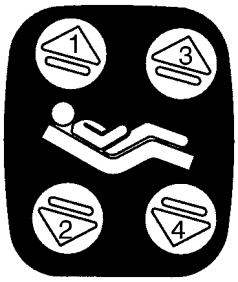


1. Push to turn the room light on.

2. Push to turn the bed overhead light on.

▶ This panel is optional equipment.

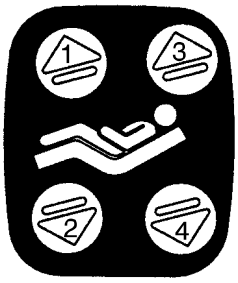
OUTSIDE SIDERAIL FUNCTION GUIDE



(Patient's Right Rail)

1. Push to raise Fowler.
2. Push to lower Fowler.
3. Push to raise Knee Gatch.
4. Push to lower Knee Gatch.

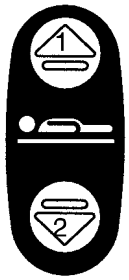
▶ This panel is optional equipment.



(Patient's Left Rail)

1. Push to raise Knee Gatch.
2. Push to lower Knee Gatch.
3. Push to raise Fowler.
4. Push to lower Fowler.

▶ This panel is optional equipment.



1. Push to raise bed height.

2. Push to lower bed height.

Push to activate Nurse Call.

▶ This panel is optional equipment.

LED will blink when the brakes are not set.

OUTSIDE SIDERAIL FUNCTION GUIDE (CONTINUED)

Push to activate auto or manual mode of the Dynamic Mattress System. LED will light to indicate selected mode and/or possible air leak.

▶ This panel is optional equipment.

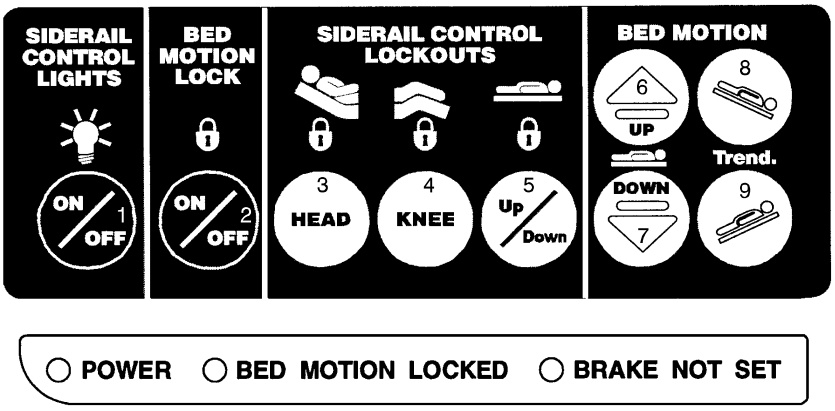
DYNAMIC MATTRESS SYSTEM USAGE (OPTIONAL EQUIPMENT)

1. The system can be set in either ”AUTOMATIC” or ”MANUAL” modes. The ”AUTO/MAN” switch is used to activate both modes. When Automatic mode is selected, the ”AUTOMATIC” LED on the siderail control panel will be on. When Manual mode is selected, the ”MANUAL” LED on the siderail control panel will be on. The “AUTO/MAN” switches are located on the control panels on the outside of the head end siderails (see above).
2. When the Automatic mode is selected, the firmness of the mattress will adjust automatically as needed. When the Manual mode is selected, the firmness of the mattress can be adjusted by the patient or the hospital clinical staff. The ”FIRM” and ”SOFT” switches are located on the control panels on the inside of the head end siderails (see page 19).

NOTE

The mattress power cord must be plugged into the bed for the mattress to operate. See page 12 for ”DMS Port” location.

FOOT BOARD CONTROL PANEL GUIDE



1. Push repeatedly for low, medium and high settings for siderail control lights. Pushing a fourth and fifth time will turn off the siderail control lights and the red nurse call light respectively (see page 18).

CAUTION

The intent of the red nurse call light on the siderails is to ensure the patient has immediate understanding of which button to push to contact the nurse station. Turning the red light off may compromise this ability, especially in a darkened room.

2. Push to lock out all bed motions. The MOTION lock icon and the “BED MOTION LOCKED” LED will light. Push again to unlock.
3. Push to lock out Back Rest controls at both siderails. The HEAD lock icon will light. Push again to unlock.
4. Push to lock out Knee Gatch controls at both siderails. The KNEE lock icon will light. Push again to unlock.
5. Push to lock out bed height movement at both siderails. The UP/DOWN lock icon will light. Push again to unlock.
6. Push to raise bed height.
7. Push to lower bed height.
8. Push to lower head end/raise foot end of bed (Trendelenberg position).
9. Push to lower foot end/raise head end of bed (Reverse Trendelenberg position).

FUNCTION LOCKOUT SYSTEM USAGE

1. To lock out the bed movement functions on the siderails and prevent the patient from changing the positioning of the bed, push the ”HEAD”, ”KNEE” and/or ”UP/DOWN” switches in the ”Siderail Control Lockouts” module on the foot board control panel.

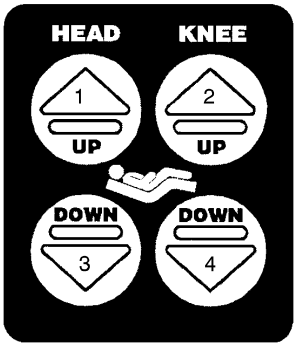
NOTE

The foot board controls for these motions are not affected by the lockout switches.

The ”padlock” symbol on the control panel will be lighted when that function is locked out.

2. To lock out the entire bed motion for all switches on the bed (siderails and foot board), push the ”ON/OFF” switch in the ”Bed Motion Lock” module on the foot board control panel.

FOOT BOARD CONTROL PANEL GUIDE (CONTINUED)



1. Push to raise Fowler.
2. Push to raise Knee Gatch.
3. Push to lower Fowler.
4. Push to lower Knee Gatch.

▶ This panel is optional equipment.

LED DISPLAY PANEL GUIDE

The LED Display Panel is located at the foot end of the bed, under the Control Panel.

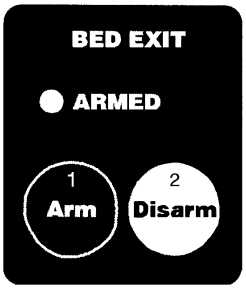
”POWER” – will light when the bed is plugged into the wall receptacle.

”BED MOTION LOCKED” – will light when the Bed Motion Lock has been activated.

”BRAKE NOT SET” – will blink when the brakes have not been set.

”BED EXIT ON” – will light when the Bed Exit function has been activated (optional equipment).

CENTER OF GRAVITY BED EXIT (OPTIONAL EQUIPMENT)



1. Push to activate Bed Exit function.
2. Push to deactivate Bed Exit function.

NOTE

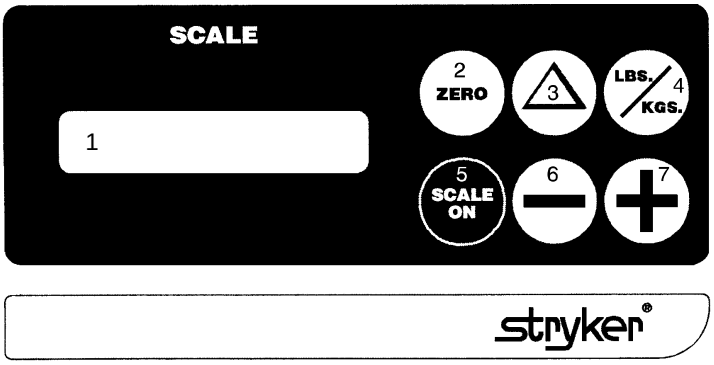
If the scale system is in use, it will switch to ”off” when Bed Exit is armed. Bed Exit will be temporarily disarmed when the scale system is activated and will re–arm when the scale system shuts off. When the bed is equipped with scales, the scales must be properly zeroed for the Bed Exit System to function properly (see page 27 for scale system usage instructions). If bed is not equipped with a scale system, follow the procedure below.

1. Before putting a new patient on the bed: prepare bed for patient stay by adding linens and equipment to the bed. Press and hold ”ARM” and ”DISARM” keys together for 5 seconds – ”ARMED” light will begin to flash. Release ”ARM” and ”DISARM” keys and do not touch the bed until ”ARMED” light stops flashing.
2. Once the new patient is on the bed: push ”ARM” key and release (”ARMED” light will come on).
3. To deactivate Bed Exit, push ”DISARM”. The ”ARMED” and ”BED EXIT ON” LED’s will turn off.

WARNING

The Bed Exit System is intended only to aid in the detection of a patient exiting the bed. It is NOT intended to replace patient monitoring protocol. It signals when a patient is about to exit. Adding or subtracting objects from the bed after arming the bed exit system may cause a reduction in the sensitivity of the bed exit system.

WEIGH SYSTEM CONTROL PANEL GUIDE



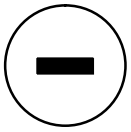
1. LCD – displays patient weight.
2. Push to zero bed.
3. Push when changing equipment on the bed.
4. Push to change weight from pounds to kilograms or back.
5. Push to turn weight system on.
6. Push to decrease numerical value of displayed weight.
7. Push to increase numerical value of displayed weight.

NOTE

After approximately 30 seconds of idle time, the scale display will turn off and will show the Trendelenberg angle of the bed. Press “SCALE ON” to return to the weight display.

SYMBOL	ACTION	DISPLAY
	To prepare bed for new patient:	
SCALE ON	Press and hold ”SCALE ON”. Release the button *after* the display reads: ”LET GO FOR SCALE”	”LET GO FOR SCALE” ”WEIGHING...” ”XXX.X LB”
ZERO	Press and hold ”ZERO”	”HOLD TO ZERO WT.” ”RELEASE TO ZERO”
	Release ”ZERO”	”DO NOT TOUCH BED” ”0.0 LB”

WEIGH SYSTEM CONTROL PANEL GUIDE (CONTINUED)

SYMBOL	ACTION	DISPLAY
	To add or remove equipment during patient stay without affecting registered patient weight:	
	Press and release ”SCALE ON”	”WEIGHING...” ”XXX.X LB”
	Press △	”HOLD TO START” ”RELEASE TO START”
	Release △	”DO NOT TOUCH BED” ”ADD/REMOVE EQUIP.”
	Add or remove equipment.	
	Press △	”RELEASE TO FIN.”
	Release △	”DO NOT TOUCH BED” ”XXX.X LB”
	To convert the patient’s weight:	
	To convert the patient’s weight to kilograms, press and release ”LBS./KG.”	”WEIGHT NOW KGS” ”XXX.X KG”
	Repeat the procedure to return to pounds.	
	To change the numerical value of displayed weight:	
	Press − and hold to scroll to desired weight.	”HOLD TO DEC. WT.” ”XXX.X LB”
	Press + and hold to scroll to desired weight.	”HOLD TO INC. WT.” ”XXX.X LB”

OPERATING THE SCALE BEFORE PUTTING A NEW PATIENT IN BED

- Prepare bed for patient stay (linens, pillows, etc.).
- Press and hold ”SCALE ON”. Release the button *after* the display reads ”LET GO FOR SCALE”. (This will turn off the Trend. angle display and activate the scale). The scale monitor will read:

”LET GO FOR SCALE”

”WEIGHING”

”XXX.X LB”

- Press and hold ”ZERO”. The scale monitor will read:

”HOLD TO ZERO WT.”

”RELEASE TO ZERO”

- Release ”ZERO”. The scale monitor will now read:

”DO NOT TOUCH BED”

”0.0 LB”

The bed is now ready for the patient.

NOTE

Do not zero the bed while a patient is in bed. Inaccurate patient weight reading will result. If this should occur, remove the patient and zero the bed.

OPERATING THE SCALE IF PATIENT IS ALREADY IN BED

- If it is necessary to add or remove special equipment (monitors, pumps, etc.) during the patient’s stay, press and release ”SCALE ON” to activate the weigh system. After the scale monitor reads ”XXX.X LB”, press and hold . The scale monitor will read:

”HOLD TO START”

”RELEASE TO START”

- Release  . The scale monitor will read:

”DO NOT TOUCH BED”

”ADD/REMOVE EQUIP”

- Add or remove the equipment and press  . The scale monitor will read:

”RELEASE TO FIN.”

- Release  . The scale monitor will read:

”DO NOT TOUCH BED”

”XXX.X LB”

The weight displayed will be that of the patient only.

Weigh System Usage

CONVERTING THE PATIENT'S WEIGHT

- To convert the patient's weight from pounds to kilograms, press and release "SCALE ON" to activate the weigh system. After the scale monitor reads "XXX.X LB", press and release the "LBS/KGS" button. The scale monitor will read:

  "WEIGHT NOW KGS"

  "XXX.X KG"

- Repeat the procedure to return to pounds. The display will read:

  "WEIGHT NOW LBS"

  "XXX.X LB"

CHANGING THE NUMERICAL VALUE OF DISPLAYED WEIGHT

- To decrease the numerical value of the displayed weight, press and hold "**–**". The scale monitor will read:

  "HOLD TO DEC. WT."

  "XXX.X LB"

- Hold "**–**" until desired value is achieved.

- To increase the numerical value of the displayed weight, press and hold "**+**". The scale monitor will read:

  "HOLD TO INC. WT."

  "XXX.X LB"

- Hold "**+**" until desired value is achieved.

NOTE

The weigh system will shut off approximately one minute after a function has been used, if another function is not activated. Display light will shut off and display will read "SCALE OFF".

The weigh system will retain all patient weight information in its memory even when the scale monitor is off or when the bed is unplugged from the wall socket.

Static Discharge Precautions

The electronic circuits in the 3000 are completely protected from static electricity damage only while the bed is assembled. It is extremely important that all service personnel always use adequate static protection when servicing the electronic systems of the 3000. *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.

CAUTION

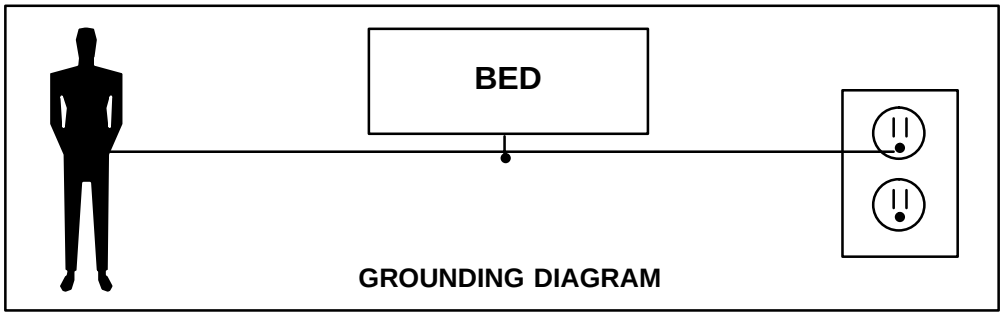
All electronic service parts will be shipped in static shielding bags. Do not open the bags until you have completed steps 2 and 3 of the following procedure. Do not place unprotected circuit boards on the floor. All circuit boards to be returned to Stryker Medical should be shipped in the static shielding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

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 bed.



GROUNDING DIAGRAM

The Secure 3000 has only two main printed circuit boards in the litter (a CPU and a power PCB), two switch boards in each siderail, and one interface switch board at the foot board. Because of this design, isolating a “board failure” requires minimal troubleshooting time.

NOTE
Additional option boards may include a head wall interface board in the litter for Nurse Call, a Bed Exit switch board, a scale switch board and lCD at the foot board control panel for Bed Exit and Scale options, a DMS power supply and interface board in the litter, and a DMS switch board in each siderail for the DMS mattress option.

A general reason for troubleshooting a bed is to isolate a problem to the appropriate PCB. To do this as quickly as possible, it is important to understand where the boards and cabling are locate and what the responsibility and voltage requirements are for each connector on the boards. The following troubleshooting section is very valuable if used properly. Pages 34–41 display an overhead view of the litter to locate and identify all electrical components and wiring and the replacement part numbers for each component. Pages 42–52 show the litter circuit boards and identification of each connector, the cabling location as it is identified on the board and the corresponding cable, the proper voltage for each pin, where to attache the voltmeter’s positive and negative leads and what the voltage represents (description). The description column will guide you to the appropriate connector for voltage verification.

MAIN LITTER BOARDS

CPU BOARD P/N 3001–307–910

The CPU/control board is the “mother board” of the bed. It contains no primary voltages. It contains secondary voltages for the foot board, siderails, Nurse Call interface, downward motion interrupt system, weigh system load cells, and switch board signalling for the relays on the power board for electrical motion. It also contains all the bed’s logic capabilities and limit information.

POWER BOARD P/N 3001–300–910

This board contains primary voltages. It receives secondary voltage signals from the CPU to activate its relays for bed motion. It also receives the main power from the power cord and provides the power for the Fowler, Knee Gatch, Bed Lift motors, 110V outlet, Night Light and DMS power board. It has a transformer and voltage regulators and also contains the bed’s main power fuses.

SIDERAILS

Each siderail contains an outside and and inside switch board. Power to the siderails is provided by the CPU board. Determine if the problem exists only in one siderail or in both siderails.

A.) If the problem is isolated to one siderail, switch the siderail connectors on the CPU. If the problem is transferred to the other siderail, and the "bad" rail is now functional, the CPU needs to be replaced. If the problem is not passed to the other rail and the "bad" rail is still non–functional, verify the cable connections in the siderail are intact. If the connections are intact, replace the "bad" siderail's switch board.

B.) If the problem exists in both siderails, verify the voltages at the CPU for the siderails. If the proper voltages are not present, replace the CPU. If the proper voltages are present, the siderail boards are probably O.K. and troubleshooting the individual component (head motor, knee motor, etc.) for the function is required.

FOOT BOARD

A full option foot board contains the main foot board PCB, a bed exit board, a scale switch board, and a scale LCD. Power to the foot board is provided by the CPU. Determine if the problem exists only at the foot board or also at the siderails.

A.) If the problem exists only at the foot board, use a foot board from another bed and verify that the problem persists. If the problem is gone when the foot board is changed, replace the non–functional module on the original foot board.

NOTE
The main foot board PCB (part number 3001–500–900) has interface responsibilities. All switch boards on the foot board are connected to this board. Verify the connections are intact. If they are, the problem could be either the main foot board computer board or the switch board.

If the problem does not go away with another foot board, verify the voltages to the foot board on the CPU. If the proper voltages are not present, replace the CPU. If the voltages are present, check the cable from the CPU to the foot board receptacle. Verify the foot board receptacle pins on the litter are intact.

B.) If the problem exists not only at the foot board but also at the siderails, troubleshooting the individual component (head motor, knee motor, etc.) for the function is required.

BED LIFT

The height of the bed is adjusted by a separate lift motor on each end of the bed in the lift unit. The motor is coupled with a series of gears that run the lift screws to move the litter up or down. When the bed lift or Trendelenburg button on either the foot board or siderail is pushed, the signal passes through the CPU and into the power board, activating a relay on the power board to energize the lift motor(s) from the power board. The motor limits are held by a potentiometer (pot) on each lift unit. As the lift screws turn, the pot is turned. As the voltage changes across the pot, the CPU recognizes when to shut off the motor signal at both the high and the low end.

A.) If either lift motor electrically stops prematurely, or continues to run past it's limit, try "burning–in" the lift pots (see page 91). If the problem persists, check voltage at the CPU with the bed in the full up position. If the voltage is too high, the pot has moved out of calibration and requires resetting. If resetting the pot does not solve the problem, the lift pot probably needs to be replaced (see pages 66 & 67).

B.) If one of the lift motors does not run at all, listen for a relay "click" on the power board when the button is pressed. If the relay is activating, try "burning–in" the lift pots (see page 91). If the "burn–in" procedure doesn't help, either the power board is not providing proper voltage to the motor, the cable is not transferring power to the motor, the motor capacitor has failed or the motor itself has failed. Check all of these factors to isolate the problem.

If a relay is not being activated when the button is pushed, check the secondary voltage signals from the CPU at the power board. If proper voltage is present at the power board, replace the power board (see page 90). If proper voltage is not present at the power board, replace the CPU board (see page 90).

FOWLER AND KNEE LIFT

The heights of the Fowler and Knee are adjusted by separate motors located directly under the Fowler and the Knee. The motors are coupled to a worm gear that moves the Fowler or Knee up or down. When the Fowler or Knee button on either the foot board or siderail is pressed, the signal passes through the CPU and into the power board, activating a relay on the power board, and energizing the Fowler or Knee motor from the power board. The motor limits are held using a cam and micro switches. As the Fowler or Knee moves, the cam is pulled or pushed until a micro switch on both the high and low end of travel is activated.

A.) If the motor electrically stops prematurely or continues to run after its limit is reached, an adjustment of the cam is probably required (see page 71 or 77). If the switch still does not shut off the motor after the adjustment is made, either the switch is defective, the cabling from the switch is defective or not connected properly, or the switch is not being recognized by the power board. Check all of these factors to isolate the problem.

B.) If one of the motors is not running at all, listen for a relay “click” on the power board when the appropriate button is pressed. If the relay is activating, either the power board is not providing proper voltage to the motor, the cable is not transferring power to the motor, the motor capacitor has failed, or the motor has failed. Check all of these factors to isolate the problem.
If a relay is not being activated when the button is pressed, check the secondary voltage signals from the CPU at the power board. If the proper voltage is present at the power board, replace the power board (see page 90). If the proper voltage is not present at the power board, replace the CPU board (see page 90).

SCALE/BED EXIT SYSTEM

Power and logic for the scale and bed exit system comes from the CPU. The most common service requests on the scale system will be identified as “user issues” so, the first step in troubleshooting a scale problem is understanding how the system is used (see pages 25–28 for scale system usage instructions). Rule out user issues by “zeroing” the bed and testing the scale system with a known weight. Verify the change equipment function is working. If the system checks O.K., it can be assumed the system was not being used properly.

If the system does not weigh within tolerance, re–calibrate the weigh system (see page 87). If, after calibration, the system still does not weigh accurately, look for a possible defective load cell (see page 87). If a defective load cell is detected, replace the load cell (see page 88 & 89). If none of the load cells is defective, replace the CPU board (see page 90).

DMS – DYNAMIC MATTRESS SYSTEM

The integrated DMS mattress system is plugged into the bed and gets its power from the DMS power supply board and its signalling through the serial IFC board. The DMS power supply board gets its power from the bed’s power board. All of the logic for the mattress is contained in the control box within the mattress. When the mattress is plugged into the bed, the DMS LED will illuminate on the outside of each siderail. Rule out user issues by verifying the mattress is being used properly (see page 21 for DMS usage instructions).

A.) The controls for the DMS are integrated in each siderail. If a problem exists with the controls, isolate the problem to the siderails (see page 31).

B.) If the DMS indicator LED for manual or automatic does not illuminate and the mattress pump does not work when the mattress is plugged into the bed, verify the mattress is receiving power by checking incoming and outgoing voltage at the DMS power supply board. If voltage is present, check the voltage at the serial IFC board. If voltage is present, the controller unit in the mattress will probably need replacing. If voltage is not present going into the DMS power supply board, either the cable connections at the board, the cabling coming from the bed’s power board, or the bed power cord itself are defective. Check all these factors to isolate the problem. If voltage is present going into the DMS power supply board but not coming out, replace the DMS power supply board.

C.) If the Air Loss LED comes on, unzip the mattress cover and check for holes in the bladder or air lines or for loose air lines. If everything is intact, possibly the DMS control unit in the mattress needs to be replaced.

NURSE CALL

A full side communication package includes switches in both siderails for interfacing with Nurse Call, TV/Volume, and Room/Read Lights. When the switches are activated, the signalling is passed through the CPU and into the head wall interface board which contains the 37 pin connector for the interface cable between the bed and the wall system. The signal is a momentary switch closure and does not contain voltage. Stryker is responsible for the successful interface between the bed and the existing system. Stryker is not responsible for the nurse call system installation or modifications to the current system. WIthin reason, whatever your current system or soon to be installed system does, Stryker will manufacture an interface cable that will accommodate a direct hookup to the system. (Full option will interface with Nurse Call, TV, Room and/or Read Lights).

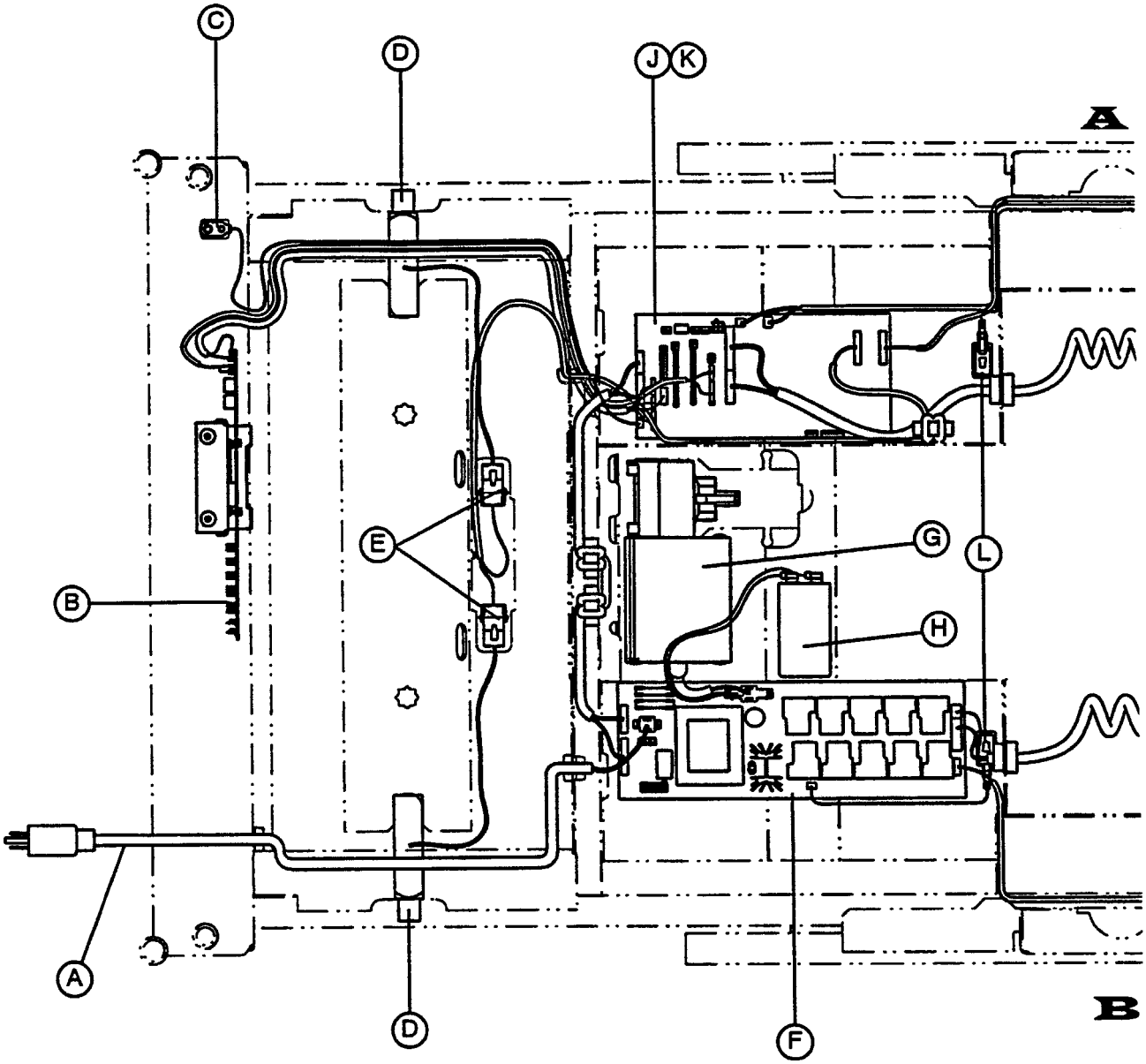
NOTE
If the Nurse Call system is being modified to accommodate Room/Read Light controls, a step down voltage supply should be no greater than 30 volts for the bed to interface successfully with the lights.

If pin out information is required for the bed's 37 pin connector, see page 47.

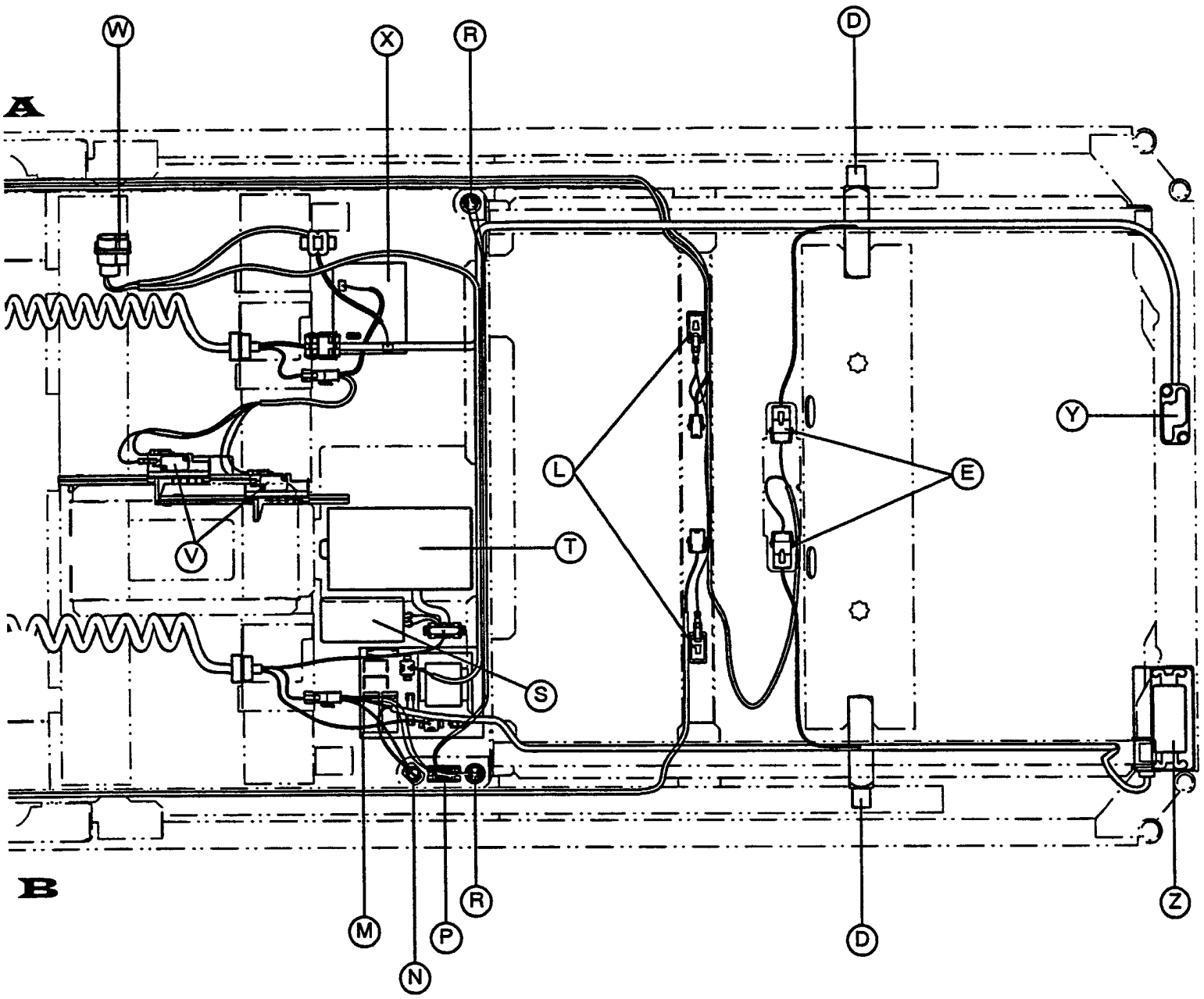
The head wall interface board has changeable jumpers at locations J2, J3, J4, J8, HDR 12, and HDR 13.
J2 is in line with Custom Pendant Signalling
J3 is in line with Nurse Call Signalling
J4 is in line with Priority Signalling
J8 is in line with Pot Wiper for Speakers
HDR 12 is in line with Priority Signalling
HDR 13 is a storage location for jumpers

The purpose of the jumpers is to allow Stryker the opportunity to manufacture cables with fewer internal jumpers. The jumpers are on the board to create either a normally open or normally closed environment depending on the system's requirements. J2–J8 have three pins with a two pin jumper on two of the pins. A pin on the right or left will always be open. HDR 12 and HDR 13 have four pins each and will either have all pins jumped or none, whichever the system requires. Stryker will build the beds with the appropriate jumper locations utilized for the hospital's system. If the systems are changed in the future, it may be necessary to change jumper locations. Call Stryker's Technical Services for assistance. Stryker maintains records showing which systems are in use at individual accounts and how the cable should be configured. Please order replacement cables from Stryker.

Bed Component and Wiring Diagram



Bed Component and Wiring Diagram

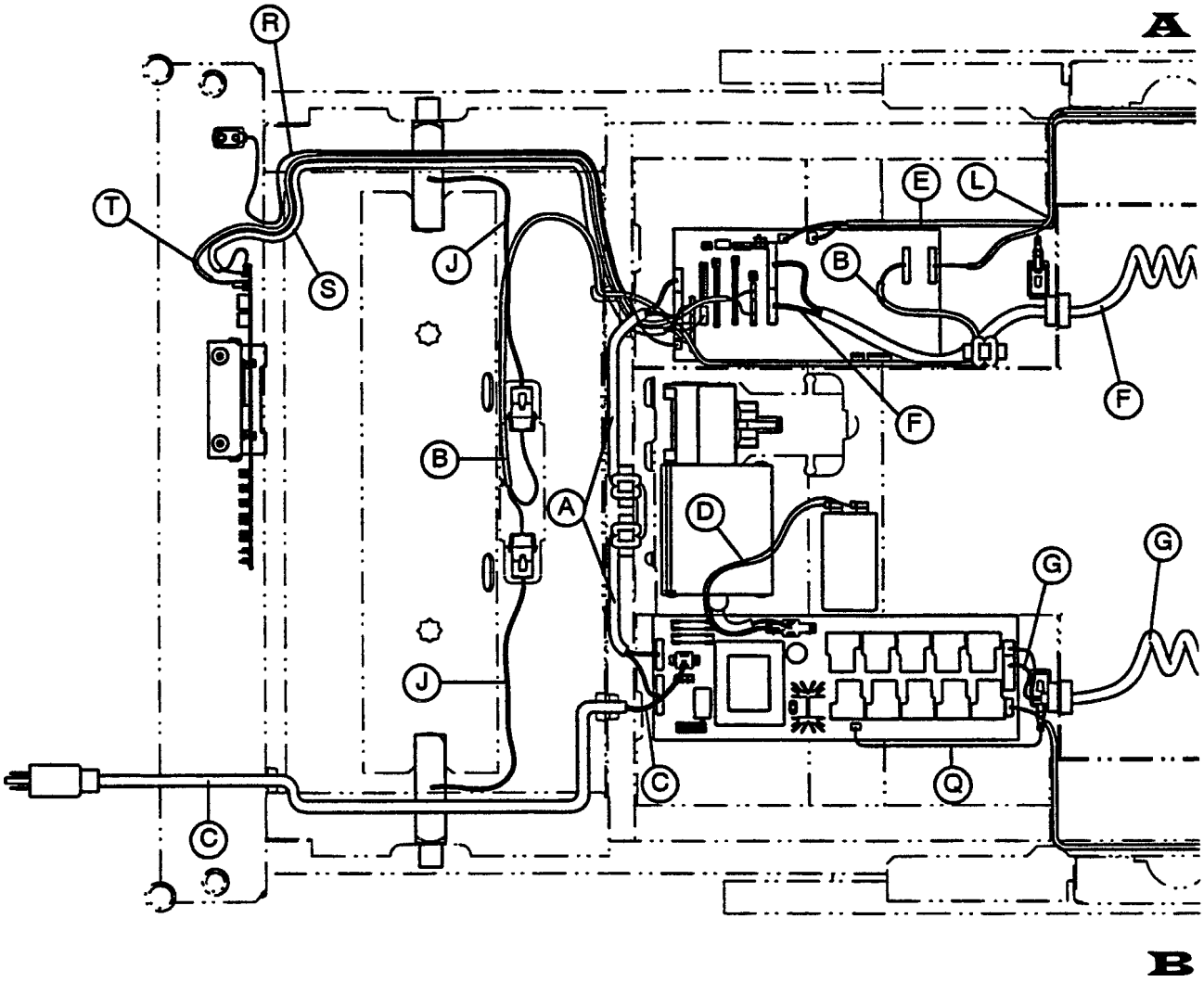


Bed Component and Wiring Diagram

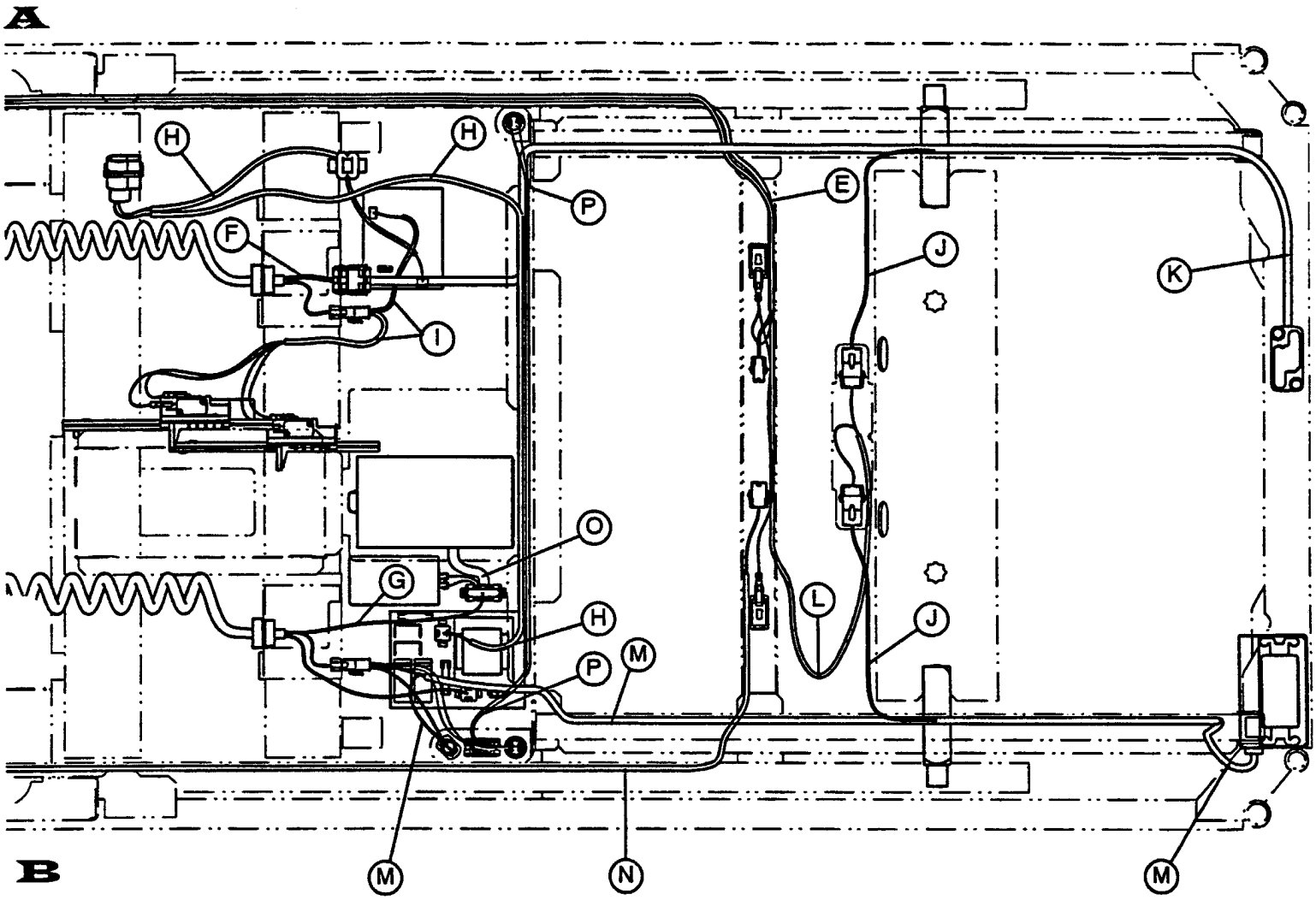
Item	Part No.	Part Name
A	3000–300–820	Power Cord Assembly
B	3001–303–900	Head Wall IFC Board
C	3000–303–871	Battery (Nurse Call Backup)
D	3001–307–53	Load Cell
E	N/A	Load Cell Connectors
F	3001–300–910	Power Board
G	3001–300–703	Head Motor
H	3000–300–453	Capacitor
J	3001–307–910	CPU Board (Scale and Bed Exit)
K	3001–300–900	CPU Board (Non–Scale)
L	3000–300–58	Motion Interrupt Switches
M	3000–302–939	DMS Power Supply
N	59–119	110V Outlet Fuse (5 Amp)
P	3000–310–828	Night Light Switch
R	59–798	Night Light
S	3000–300–401	Capacitor
T	3001–300–435	Knee Motor
V	3000–300–41	Head/Knee Limit Switches
W	3001–302–812	DMS Connector
X	3000–300–965	Serial IFC
Y	3001–300–833	Foot Board Socket
Z	59–733	110V Outlet

Notes

Bed Component and Wiring Diagram



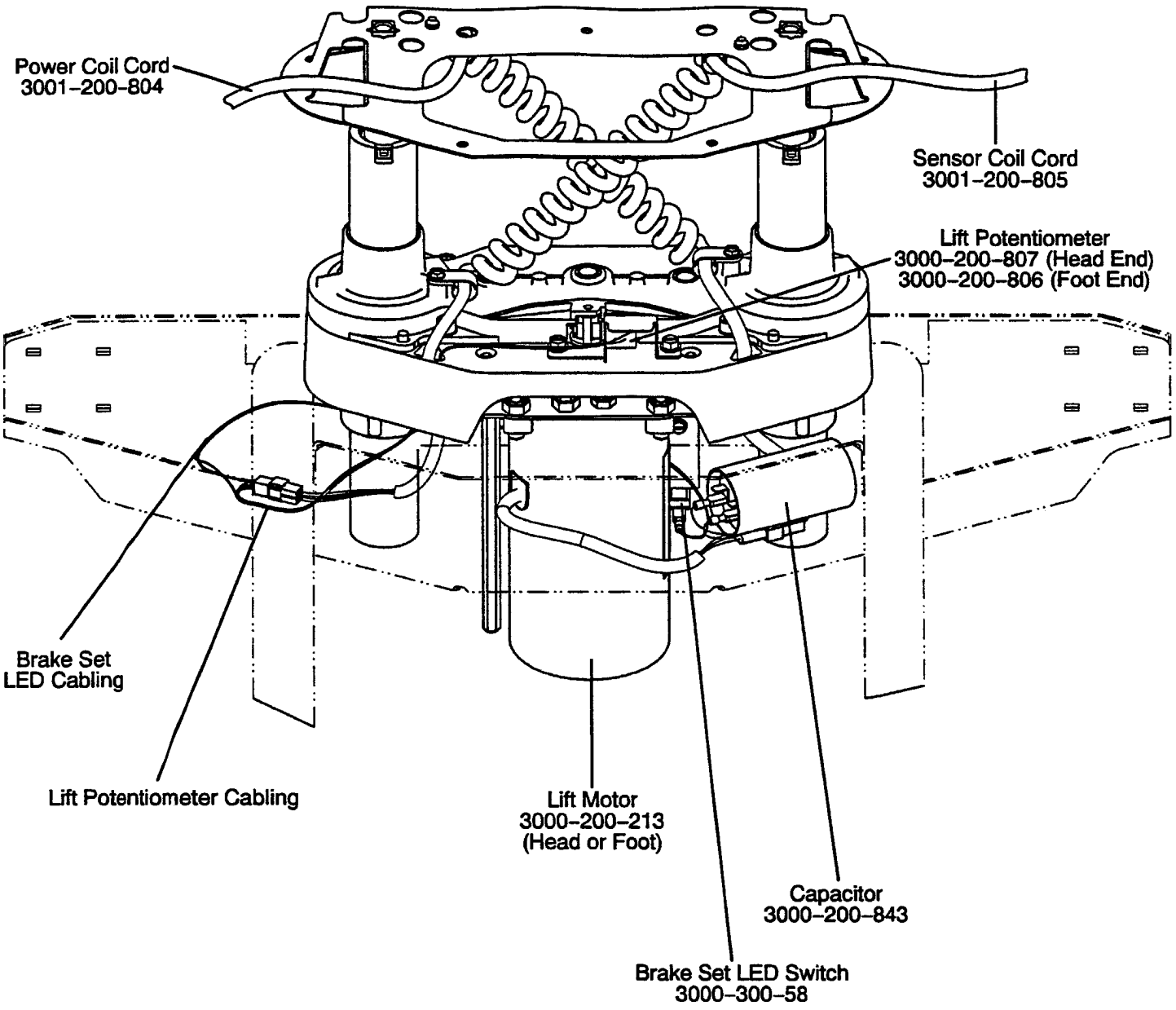
Bed Component and Wiring Diagram



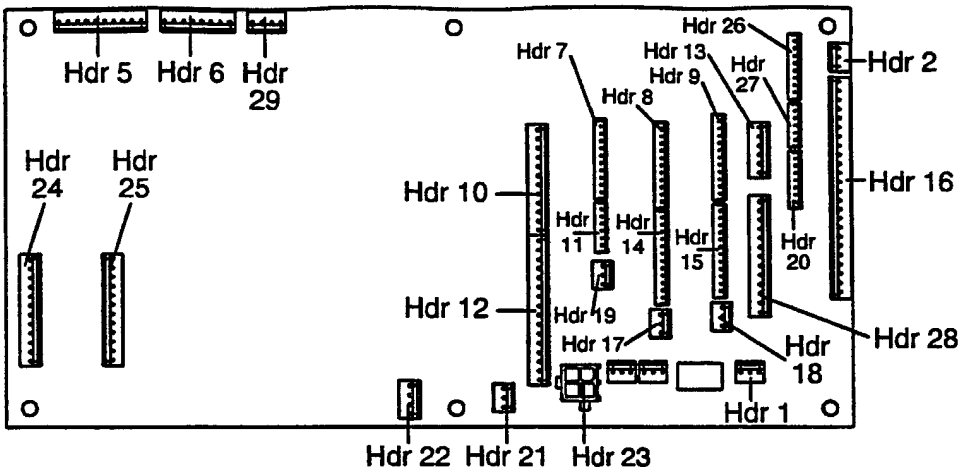
Bed Component and Wiring Diagram

Item	Part No.	Part Name
A	3001–300–804	Power PCB/CPU Control Cable
B	3001–307–812	Head End Load Cell Cable
C	3000–300–820	Power Cord
D	(Comes w/Motor)	Fowler Motor and Capacitor Cabling
E	3001–300–805	Litter Pot Cable (Foot End Bed Lift Pot & Head & Foot End Motion Interrupt Switches)
F	3001–300–824	Litter Signal Coil Cord (Fowler & Knee Cam Limits, Foot Board Controls)
G	3001–300–822	Litter Power Coil Cord (Knee Motor, Night Light, 110V Outlet, DMS)
H	(Comes w/DMS Port)	DMS Port Cable
I	3001–300–809	Limit Switch Cable (Fowler & Knee Motor Limits)
J	(Comes w/Load Cell)	Load Cell Cable
K	(Comes w/Receptacle)	Foot Board Receptacle Cable
L	3001–307–813	Foot End Load Cell Cable
M	3001–320–801	110V Outlet Cable
N	3001–300–807	Foot End Bed Lift Cable (Foot End Bed Lift Motor)
O	(Comes w/Motor)	Knee Motor & Capacitor Cabling
P	3001–310–801	Night Light Cable
Q	3001–300–810	Motion Interrupt Switch Cable
R	3001–303–801	Battery Cable
S	3001–303–803	HWI Nurse Call Cable
T	3001–303–800	HWI to CPU Cable

Bed Component and Wiring Diagram



CPU BOARD PCB – P/N 3001–307–910



NOTE
12 VDC is unregulated so 12V readings will actually be 16 to 18 VDC.

CONNECTOR LOCATION	CABLE LOCATION	VOLTAGE	POSITIVE LEAD	NEGATIVE LEAD	DESCRIPTION
HDR 10	F	5 VDC	Pin 12	HDR 12 Pin 6	Foot Board
HDR 12	G	5 VDC	Pin 12	Pin 6	Foot Board
HDR 12	G	5 VDC	Pin 10	Pin 6	Foot Board
HDR 12	G	5 VDC	Pin 9	Pin 6	Foot Board
HDR 12	G	5 VDC	Pin 8	Pin 6	Foot Board
HDR 12	G	16–18 VDC	Pin 7	Pin 6	Foot Board
HDR 21	Y	16–18 VDC w/o switch	Pin 1	HDR 16 Pin 1	Motion Interrupt
HDR 21	Y	0 VDC w/switch	Pin 1	HDR 16 Pin 1	Motion Interrupt
HDR 24	A	5 VDC	Pin 12	HDR 16 Pin 1	Foot End Load Cells
HDR 24	A	–5 VDC	Pin 11	HDR 16 Pin 1	Foot End Load Cells
HDR 24	A	5 VDC	Pin 6	HDR 16 Pin 1	Foot End Load Cells
HDR 24	A	–5 VDC	Pin 5	HDR 16 Pin 1	Foot End Load Cells

CPU BOARD PCB – P/N 3001–307–910 (CONTINUED)

CONNECTOR LOCATION	CABLE LOCATION	VOLTAGE	POSITIVE LEAD	NEGATIVE LEAD	DESCRIPTION
HDR 25	B	–5 VDC	Pin 8	HDR 16 Pin 1	Head End Load Cells
HDR 25	B	5 VDC	Pin 7	HDR 16 Pin 1	Head End Load Cells
HDR 25	B	–5 VDC	Pin 2	HDR 16 Pin 1	Head End Load Cells
HDR 25	B	5 VDC	Pin 1	HDR 16 Pin 1	Head End Load Cells
HDR 23	J	5 VDC	Pin 4	Pin 2	Head Lift Pot.
HDR 23	J	Bed Up – 3.6 Bed Down – 1.1 VDC	Pin 3	Pin 2	Head Lift Pot.
HDR 23	J	0 VDC – w/ brake set 5 VDC w/brake not set	Pin 1	Pin 2	Brake Switch
HDR 22	C	5 VDC	Pin 1	Pin 2	Foot Lift Pot.
HDR 22	C	Bed Up – 3.6 Bed Down – 1.1 VDC	Pin 3	Pin 2	Foot Lift Pot.
HDR 26	S	5 VDC	Pin 8	Pin 6	Head Wall IFC
HDR 26	S	16–18 VDC	Pin 7	Pin 6	Head Wall IFC
HDR 27	S	5 VDC	Pin 2	Pin 6	Head Wall IFC
HDR 27	S	5 VDC	Pin 1	Pin 6	Head Wall IFC
HDR 8	K	16–18 VDC	Pin 11	HDR 14 Pin 1	Left Siderail
HDR 8	K	3.7 VDC	Pin 5	HDR 14 Pin 1	Left Siderail
HDR 8	K	3.5 VDC	Pin 4	HDR 14 Pin 1	Left Siderail
HDR 8	K	3.5 VDC	Pin 3	HDR 14 Pin 1	Left Siderail
HDR 8	K	3.5 VDC	Pin 2	HDR 14 Pin 1	Left Siderail
HDR 8	K	12 VDC	Pin 1	HDR 14 Pin 1	Left Siderail

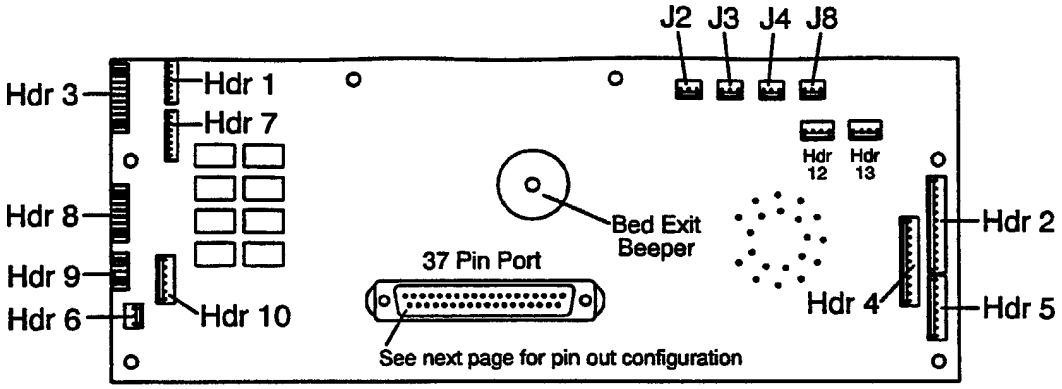
CPU BOARD PCB – P/N 3001–307–910 (CONTINUED)

CONNECTOR LOCATION	CABLE LOCATION	VOLTAGE	POSITIVE LEAD	NEGATIVE LEAD	DESCRIPTION
HDR 14	L	3.3 VDC	Pin 12	Pin 1	Left Siderail
HDR 14	L	10 VDC	Pin 6	Pin 1	Left Siderail
HDR 14	L	5 VDC	Pin 5	Pin 1	Left Siderail
HDR 14	L	3.5 VDC	Pin 4	Pin 1	Left Siderail
HDR 14	L	3.5 VDC	Pin 3	Pin 1	Left Siderail
HDR 14	L	3.7 VDC	Pin 2	Pin 1	Left Siderail
HDR 9	P	16–18 VDC	Pin 11	HDR 15 Pin 1	Right Siderail
HDR 9	P	3.7 VDC	Pin 5	HDR 15 Pin 1	Right Siderail
HDR 9	P	3.5 VDC	Pin 4	HDR 15 Pin 1	Right Siderail
HDR 9	P	3.5 VDC	Pin 3	HDR 15 Pin 1	Right Siderail
HDR 9	P	3.5 VDC	Pin 2	HDR 15 Pin 1	Right Siderail
HDR 9	P	16–18 VDC	Pin 1	HDR 15 Pin 1	Right Siderail
HDR 15	Q	3.3 VDC	Pin 12	Pin 1	Right Siderail
HDR 15	Q	10 VDC	Pin 6	Pin 1	Right Siderail
HDR 15	Q	5 VDC	Pin 5	Pin 1	Right Siderail
HDR 15	Q	3.5 VDC	Pin 4	Pin 1	Right Siderail
HDR 15	Q	3.5 VDC	Pin 3	Pin 1	Right Siderail
HDR 15	Q	3.7 VDC	Pin 2	Pin 1	Right Siderail
HDR 16	X	0 VDC (w/switch) 16–18 VDC (w/o switch)	Pin 24	Pin 1	Power Board (Motion Interrupt)
HDR 16	X	0 VDC (w/switch) 16–18 VDC (w/o switch)	Pin 23	Pin 1	Power Board (Motion Interrupt)
HDR 16	X	5 VDC (w/switch) 0 VDC (w/o switch)	Pin 22	Pin 1	Power Board (Head End Bed Up)
HDR 16	X	5 VDC (w/switch) 0 VDC (w/o switch)	Pin 21	Pin 1	Power Board (Head End Bed Down)

CPU BOARD PCB – P/N 3001–307–910 (CONTINUED)

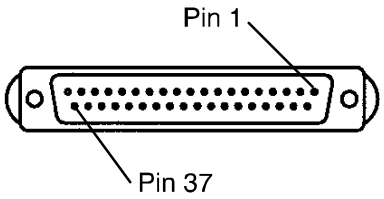
CONNECTOR LOCATION	CABLE LOCATION	VOLTAGE	POSITIVE LEAD	NEGATIVE LEAD	DESCRIPTION
HDR 16	X	5 VDC (w/switch) 0 VDC (w/o switch)	Pin 20	Pin 1	Power Board (Foot End Bed Up)
HDR 16	X	5 VDC (w/switch) 0 VDC (w/o switch)	Pin 19	Pin 1	Power Board (Foot End Bed Down)
HDR 16	X	5 VDC (w/switch) 0 VDC (w/o switch)	Pin 18	Pin 1	Power Board (Fowler Up)
HDR 16	X	5 VDC (w/switch) 0 VDC (w/o switch)	Pin 17	Pin 1	Power Board (Fowler Down)
HDR 16	X	5 VDC (w/switch) 0 VDC (w/o switch)	Pin 16	Pin 1	Power Board (Gatch Up)
HDR 16	X	5 VDC (w/switch) 0 VDC (w/o switch)	Pin 15	Pin 1	Power Board (Gatch Down)
HDR 16	X	5 VDC (w/switch) 0 VDC (w/o switch)	Pin 14	Pin 1	Power Board (Safety Relay – all Motions)
HDR 16	X	5 VDC (w/switch) 0 VDC (w/o switch)	Pin 13	Pin 1	Power Board (Motion Interrupt)
HDR 16	W	–5 VDC	Pin 6	Pin 1	Power Board
HDR 16	W	16–18 VDC	Pin 5	Pin 1	Power Board
HDR 16	W	16–18 VDC	Pin 4	Pin 1	Power Board
HDR 16	W	5 VDC	Pin 3	Pin 1	Power Board

HEADWALL INTERFACE PCB – P/N 3001–303–900



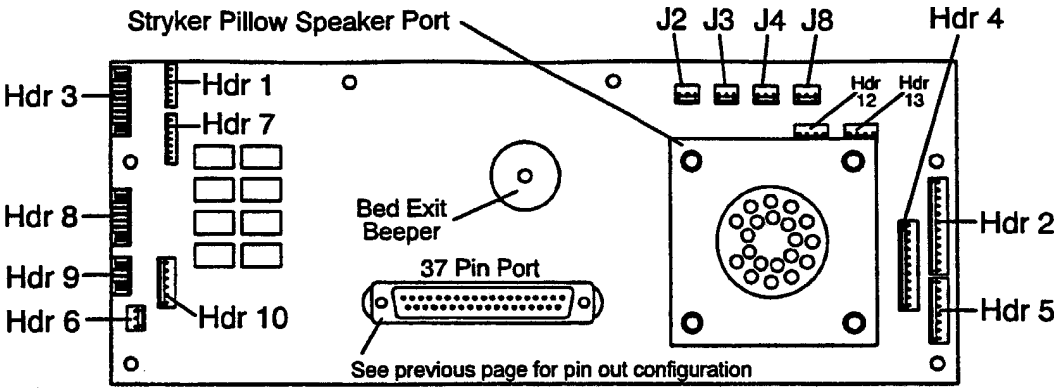
CONNECTOR LOCATION	CABLE LOCATION	VOLTAGE	POSITIVE LEAD	NEGATIVE LEAD	DESCRIPTION
HDR 1	E	16–18 VDC (w/o switch) Minimal Volt Drop (w/ switch)	Pin 1	Pin 3	Nurse Call
HDR 1	E	16–18 VDC (w/o switch) Minimal Volt Drop (w/ switch)	Pin 2	Pin 3	Nurse Call
HDR 1	E	5 VDC	Pin 4	Pin 3	Pillow Speaker Port
HDR 1	E	3–3.5 VDC	Pin 5	Pin 3	Siderail Back Lighting
HDR 6	A	16–18 VDC (off) 12 VDC (on)	Pin 1	HDR 1 Pin 3	Beeper (Bed Exit)
HDR 7	F	0 VDC (off) 5 VDC (on)	Pin 5	HDR 1 Pin 3	Beeper (Bed Exit)
HDR 8	C	5 VDC	Pin 8	Pin 6	CPU Board
HDR 8	C	16–18 VDC	Pin 7	Pin 6	CPU Board
HDR 9	B	0 VDC (w/o switch) 5 VDC (w/switch)	Pin 5	HDR 8 Pin 6	T.V.
HDR 9	B	0 VDC (w/o switch) 5 VDC (w/switch)	Pin 4	HDR 8 Pin 6	Room Light
HDR 9	B	0 VDC (w/o switch) 5 VDC (w/switch)	Pin 3	HDR 8 Pin 6	Read Light
HDR 9	B	5 VDC	Pin 2	HDR 8 Pin 6	Nurse Call LED
HDR 9	B	5 VDC	Pin 1	HDR 8 Pin 6	Nurse Answer LED
J2	N/A	N/A	N/A	N/A	Custom Pendant
J3	N/A	N/A	N/A	N/A	Nurse Call
J4	N/A	N/A	N/A	N/A	Priority
J8	N/A	N/A	N/A	N/A	Pot Wiper–Speaker
HDR 12	N/A	N/A	N/A	N/A	Priority
HDR 13	N/A	N/A	N/A	N/A	Storage

37–PIN CONNECTOR



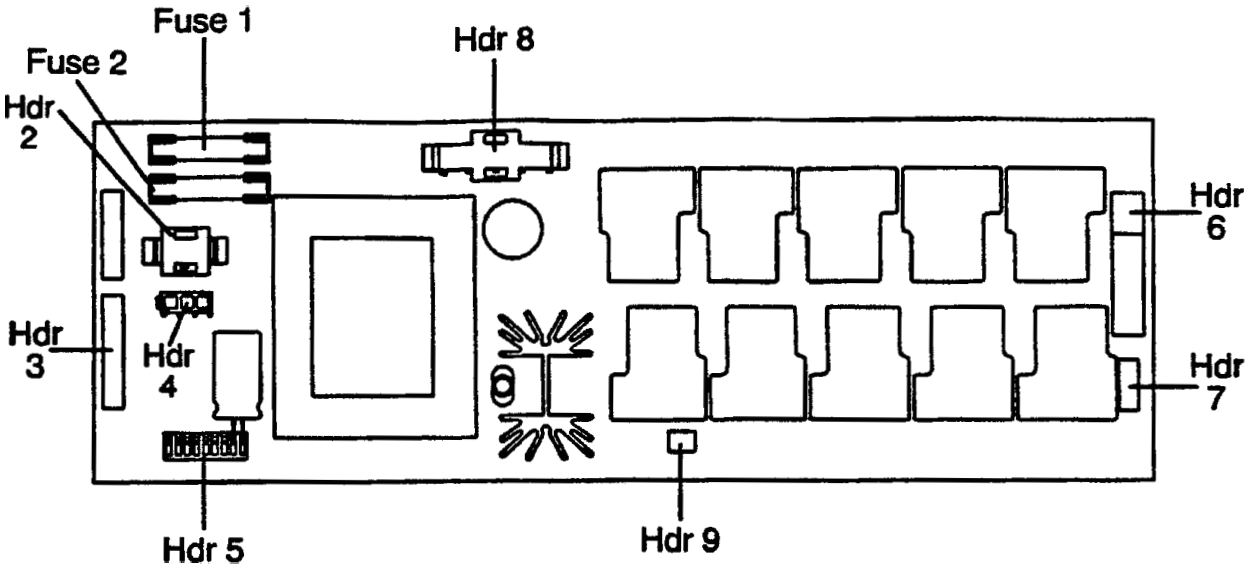
Pin 1	Option 2 Common
Pin 2	Read Light
Pin 3	Room Light
Pin 4	Speaker High
Pin 5	Pot Wiper
Pin 6	Radio Common
Pin 7	Nurse Call Interlock
Pin 8	Audio Transfer –
Pin 9	Audio Transfer +
Pin 10	Interlock +
Pin 11	Interlock –
Pin 12	Spare
Pin 13	Options 3 Common
Pin 14	Pot Low Common
Pin 15	Pot High Common
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

HEAD WALL INTERFACE W/STRYKER PORT PCB – P/N 3001–314–900



CONNECTOR LOCATION	CABLE LOCATION	VOLTAGE	POSITIVE LEAD	NEGATIVE LEAD	DESCRIPTION
HDR 1	E	16–18 VDC (w/o switch) Minimal Volt Drop (w/ switch)	Pin 1	Pin 3	Nurse Call
HDR 1	E	16–18 VDC (w/o switch) Minimal Volt Drop (w/ switch)	Pin 2	Pin 3	Nurse Call
HDR 1	E	5 VDC	Pin 4	Pin 3	Pillow Speaker Port
HDR 1	E	3–3.5 VDC	Pin 5	Pin 3	Siderail Back Lighting
HDR 6	A	16–18 VDC (off) 12 VDC (on)	Pin 1	HDR 1 Pin 3	Beeper (Bed Exit)
HDR 7	F	0 VDC (off) 5 VDC (on)	Pin 5	HDR 1 Pin 3	Beeper (Bed Exit)
HDR 8	C	5 VDC	Pin 8	Pin 6	CPU Board
HDR 8	C	16–18 VDC	Pin 7	Pin 6	CPU Board
HDR 9	B	0 VDC (w/o switch) 5 VDC (w/switch)	Pin 5	HDR 8 Pin 6	T.V.
HDR 9	B	0 VDC (w/o switch) 5 VDC (w/switch)	Pin 4	HDR 8 Pin 6	Room Light
HDR 9	B	0 VDC (w/o switch) 5 VDC (w/switch)	Pin 3	HDR 8 Pin 6	Read Light
HDR 9	B	5 VDC	Pin 2	HDR 8 Pin 6	Nurse Call LED
HDR 9	B	5 VDC	Pin 1	HDR 8 Pin 6	Nurse Answer LED
J2	N/A	N/A	N/A	N/A	Custom Pendant
J3	N/A	N/A	N/A	N/A	Nurse Call
J4	N/A	N/A	N/A	N/A	Priority
J8	N/A	N/A	N/A	N/A	Pot Wiper–Speaker
HDR 12	N/A	N/A	N/A	N/A	Priority
HDR 13	N/A	N/A	N/A	N/A	Storage

POWER BOARD PCB – P/N 3001–300–910

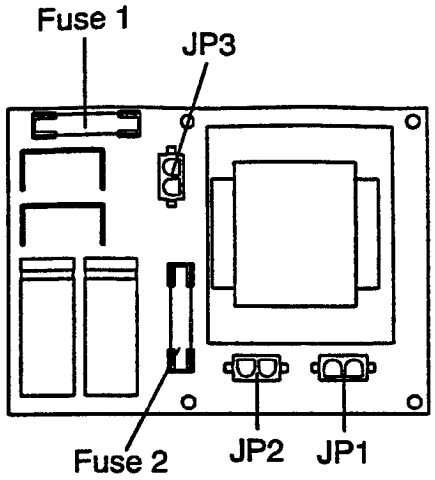


CONNECTOR LOCATION	CABLE LOCATION	VOLTAGE	POSITIVE LEAD	NEGATIVE LEAD	DESCRIPTION
HDR 3	I	0 VDC (w/o switch) 5 VDC (w/ switch)	Pin 22	Pin 1	Head End Bed Up
HDR 3	I	0 VDC (w/o switch) 5 VDC (w/ switch)	Pin 21	Pin 1	Head End Bed Down
HDR 3	I	0 VDC (w/o switch) 5 VDC (w/ switch)	Pin 20	Pin 1	Foot End Bed Up
HDR 3	I	0 VDC (w/o switch) 5 VDC (w/ switch)	Pin 19	Pin 1	Foot End Bed Down
HDR 3	I	0 VDC (w/o switch) 5 VDC (w/ switch)	Pin 18	Pin 1	Fowler Up
HDR 3	I	0 VDC (w/o switch) 5 VDC (w/ switch)	Pin 17	Pin 1	Fowler Down
HDR 3	I	0 VDC (w/o switch) 5 VDC (w/ switch)	Pin 16	Pin 1	Gatch Up
HDR 3	I	0 VDC (w/o switch) 5 VDC (w/ switch)	Pin 15	Pin 1	Gatch Down
HDR 3	I	0 VDC (w/o switch) 5 VDC (w/ switch)	Pin 14	Pin 1	Safety Relay
HDR 3	I	0 VDC (w/o switch) 5 VDC (w/ switch)	Pin 13	Pin 1	Motion Interrupt
HDR 3	I	–5 VDC	Pin 6	Pin 1	CPU
HDR 3	I	16–18 VDC	Pin 5	Pin 1	CPU
HDR 3	I	16–18 VDC	Pin 4	Pin 1	CPU
HDR 3	I	5 VDC	Pin 3	Pin 1	CPU
HDR 4	C	0 VAC (w/o switch) 110 VAC (w/ switch)	Pin 1	Pin 3	Head End Bed Motor Up

POWER BOARD PCB – P/N 3001–300–910 (CONTINUED)

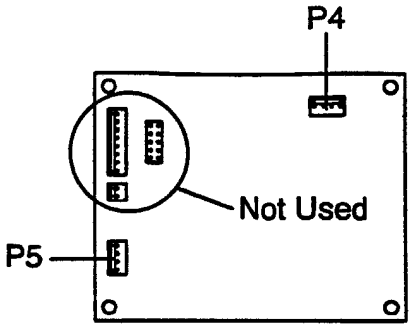
CONNECTOR LOCATION	CABLE LOCATION	VOLTAGE	POSITIVE LEAD	NEGATIVE LEAD	DESCRIPTION
HDR 4	C	0 VAC (w/o switch) 110 VAC (w/ switch)	Pin 2	Pin 3	Head End Bed Motor Down
HDR 7	G	0 VAC (w/o switch) 110 VAC (w/ switch)	Pin 1	Pin 3	Foot End Bed Motor Up
HDR 7	G	0 VAC (w/o switch) 110 VAC (w/ switch)	Pin 2	Pin 3	Foot End Bed Motor Down
HDR 8	E	0 VAC (w/o switch) 110 VAC (w/ switch)	Pin 1	Pin 3	Fowler Motor Up
HDR 8	E	0 VAC (w/o switch) 110 VAC (w/ switch)	Pin 2	Pin 3	Fowler Motor Down
HDR 6	H	0 VAC (w/o switch) 110 VAC (w/ switch)	Pin 8	Pin 10	Gatch Motor Up
HDR 6	H	0 VAC (w/o switch) 110 VAC (w/ switch)	Pin 9	Pin 10	Gatch Motor Down
HDR 2	B	110 VAC	Pin 1	Pin 2	Power Cord
Fuse 1		10A 3AG slo blo			Main Power Fuse
Fuse 2		3/10A 3AG slo blo			Main Power Fuse

DMS POWER SUPPLY PCB



CONNECTOR LOCATION	VOLTAGE	POSITIVE LEAD	NEGATIVE LEAD	DESCRIPTION
J1	110 VAC	2	1	Main Power
J2	110 VAC	2	1	Main Power
J2	24 VDC	2	1	To DMS Port
Fuse 1	.3A 3AG Slo Blo			
Fuse 2	.3A 3AG Slo Blo			

SERIAL INTERFACE PCB – P/N 3000–300–965



CONNECTOR LOCATION	CABLE LOCATION	VOLTAGE	POSITIVE LEAD	NEGATIVE LEAD	DESCRIPTION
P4	No cable location	9 VDC	Pin 1	Pin 2	DMS Port
P4	No cable location	9 VDC	Pin 3	Pin 2	DMS Port
P4	No cable location	9 VDC	Pin 4	Pin 2	DMS Port
P5	No cable location	16–18 VDC	Pin 1	Pin 4	DMS Siderail Controls
P5	No cable location	5 VDC	Pin 2	Pin 4	DMS Siderail Controls
P5	No cable location	5 VDC	Pin 3	Pin 4	DMS Siderail Controls

BRAKE PEDAL REPLACEMENT

Required Tools:

5/16” Hex Allen Wrench	Torque Wrench	Loctite 242
Hammer	Punch	#2 Phillips Screwdriver

Procedure:

1. Unplug the bed power cord from the wall socket.
2. Using a #2 Phillips screwdriver, remove the three screws holding both the head end and the foot end upper lift covers. If desired, hold the covers out of the way by using bungee cords (or the equivalent) to secure them to the litter top.
3. Using a 5/16” hex Allen wrench, remove the two bolts holding the brake pedal to the brake rod.
4. 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.
5. Push the brake rod through the frame until the brake pedal is clear. Remove the brake pedal.
6. Reverse the above steps to attach the new brake pedal.

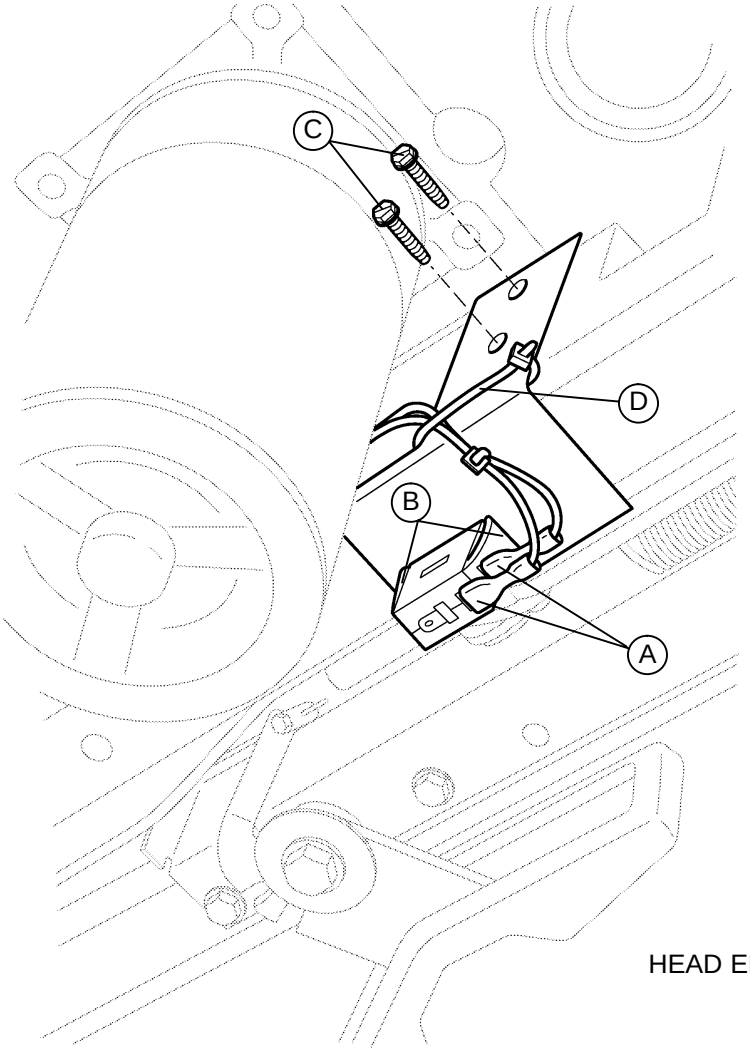
NOTE

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

BRAKE SENSOR REPLACEMENT

Required Tools:

5/16” Socket Wrench Side Cutters 5/16” Open End Wrench



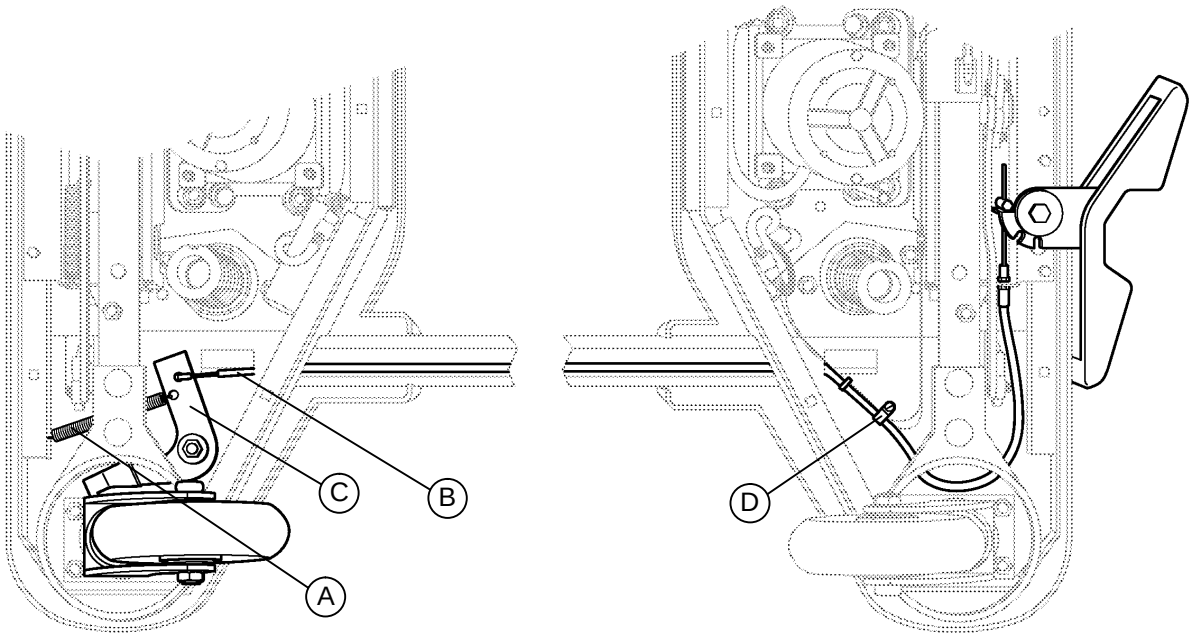
Procedure:

1. Unplug the power cord from the wall socket. Using a 5/16” socket, remove the six bolts holding the lower lift cover to the base.
2. Remove the two cables (A) from the switch. (Note the terminals where the cables are connected so the cables will be reattached properly).
3. Squeeze the switch retaining clips (B) and push up on the switch to remove it from the retaining bracket.
4. If the retaining bracket is bent or damaged, remove the screw (C) and the cable tie (D) holding the bracket to the frame and remove the bracket.
5. Reverse the above steps to install the new bracket and/or switch.

STEER WHEEL CABLE REPLACEMENT AND ADJUSTMENT

Required Tools:

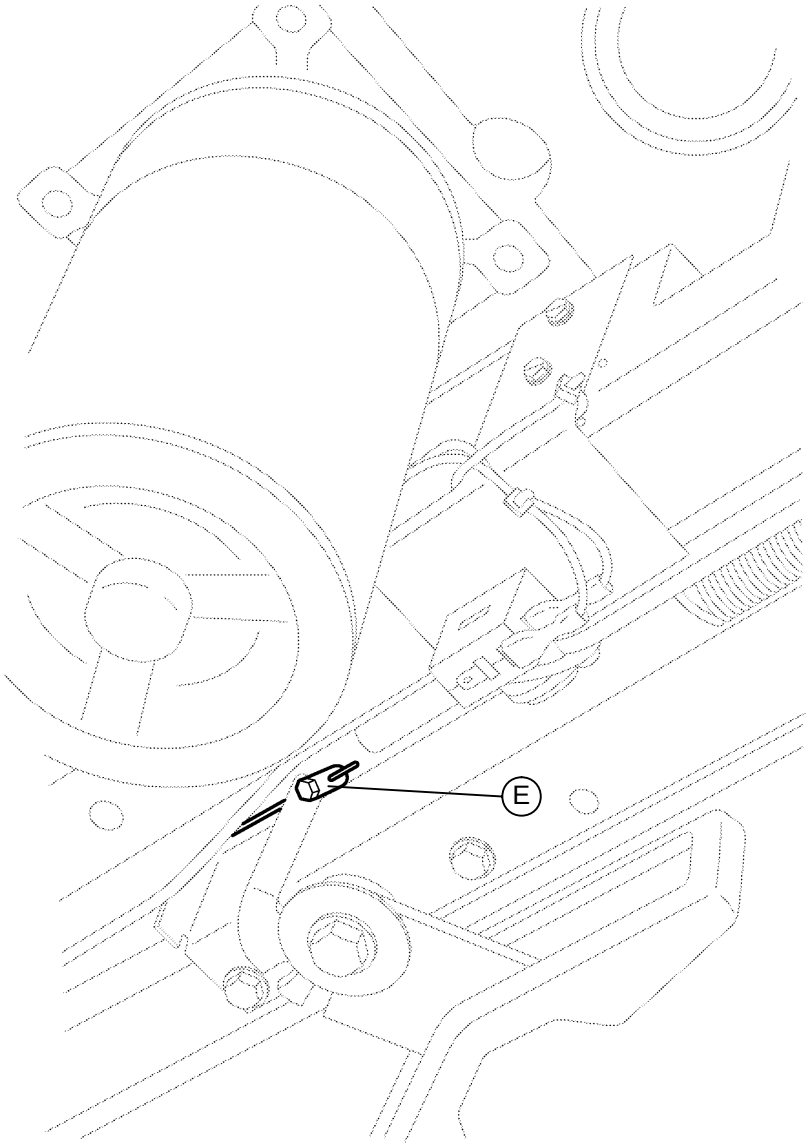
5/16” Socket Wrench
(2) 5/16” Nut Drivers
Needle–Nose Vise Grip Pliers
Standard Screwdriver
(2) 10 mm Open End Wrenches
3/8” Socket Wrench
(2) 3/16” Hex Socket Drivers



FOOT END HEAD END

1. Unplug the power cord from the wall socket. Using a 5/16” socket wrench, remove the six bolts holding the lower lift cover to the base and remove the cover.
2. Remove the steer lock spring (A).
3. Using a 3/8” socket wrench, remove the cable clamp (D) from the foot end and remove the steer cable (B) from the steer latch lever (C).
4. Using two 10mm open end wrenches, remove the two jam nuts securing the cable to the cable support bracket at the head end of the bed on the patient’s right side.
5. Using a 5/16” nut driver, remove the cable clamp (D) holding the cable to the base at the head end of the bed.

STEER WHEEL CABLE REPLACEMENT AND ADJUSTMENT (CONTINUED)

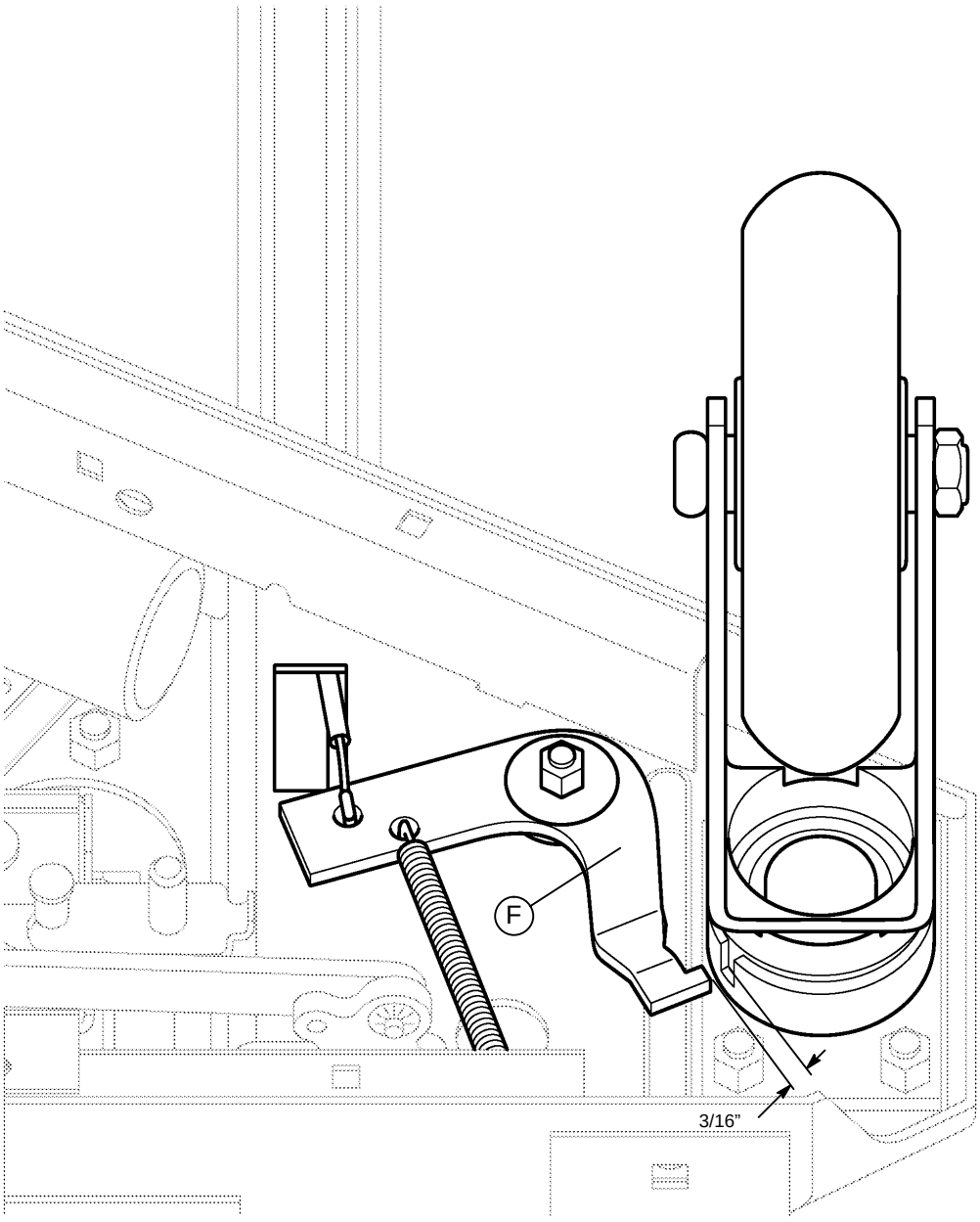


6. Using two 3/16” hex socket drivers, loosen the bolt in the cable retainer (E) and slide the retainer off the cable. Pull the cable out of the bed.

NOTE
If the cable sheathing is not damaged, pull the cable from the head end of the bed and remove it from the sheathing, leaving the sheathing on the bed. Push the new cable through the sheathing from the head end.

7. Reverse the above steps to attach the new cable.

STEER WHEEL CABLE REPLACEMENT AND ADJUSTMENT (CONTINUED)



Adjustment Procedure:

If the steer wheel engages when the steer pedal is in the neutral or off position, slide the cable retainer toward the cable support bracket and tighten the retainer back down on the cable.

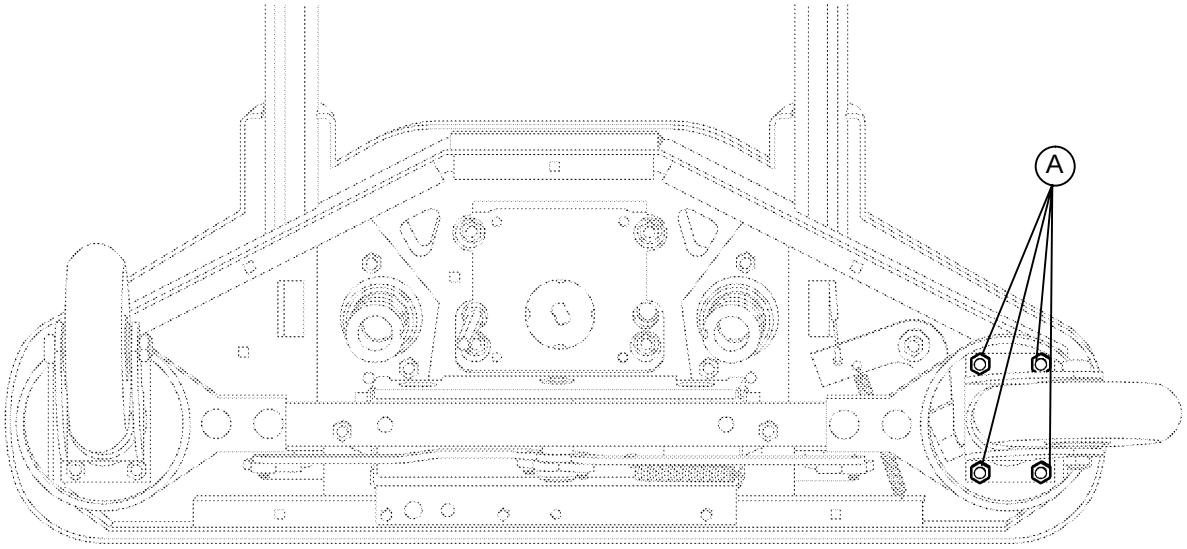
If the steer wheel does not hold properly when the pedal is in the steer position, slide the retainer away from the cable support bracket and tighten the retainer back down on the cable.

NOTE
The ideal off position for the steer latch lever (F) to the steer wheel is approximately 3/16” between the end of the lever and the caster horn.

CASTER REPLACEMENT

Required Tools:

Floor Jack	1/2” Socket w/extension	
#2 Phillips Screwdriver	Bungee Cord (or equivalent)	Wooden Brace



FOOT END BOTTOM VIEW

Replacement Procedure:

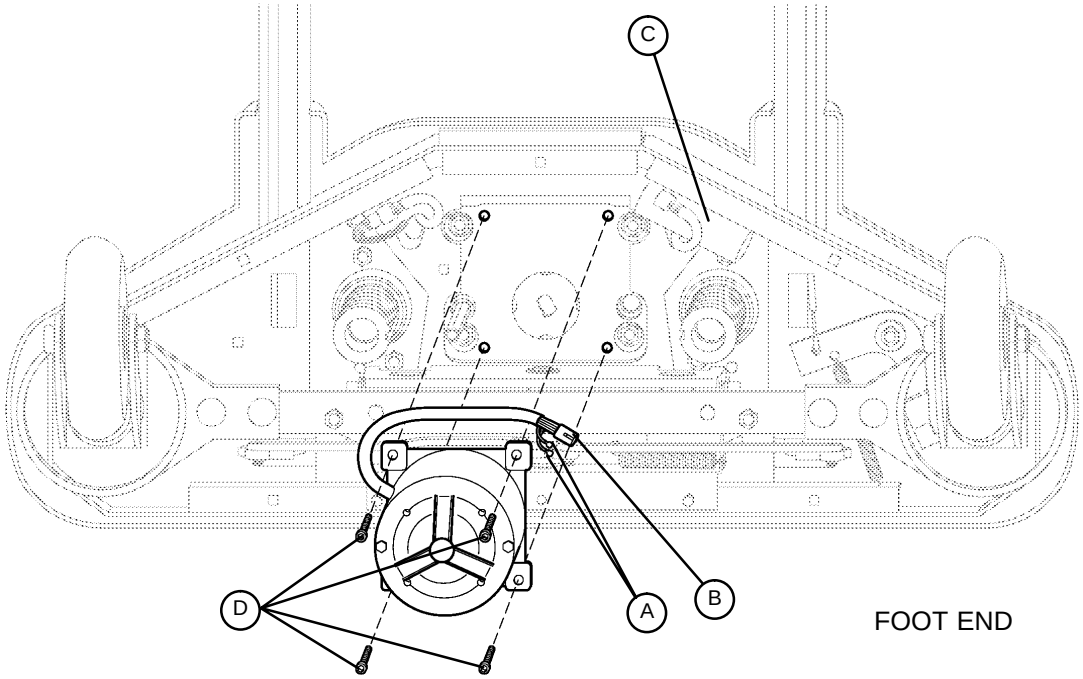
1. Unplug the power cord from the wall socket.
2. Using a #2 Phillips screwdriver, remove the three screws holding the upper lift cover to the base.
3. Be sure the bed’s brakes are on. Using a floor jack and wooden brace, lift the end of the bed with the defective caster off the floor a few inches.
4. Using a 1/2” socket with extension under the base, remove the four castle nuts (A) holding the caster assembly to the base.
5. Reverse the above procedure to install the replacement caster.

NOTE
The upper lift cover was raised to allow access to the four carriage bolts which need to be held when the four castle nuts are reinstalled.

LIFT MOTOR AND CAPACITOR REMOVAL AND REPLACEMENT

Required Tools:

3/16” Hex Allen Socket	5/16” Socket Wrench	#2 Phillips Screwdriver
7/16” Open End Wrench	Side Cutters	Bungee Cord (or equivalent)



Procedure:

1. Unplug the power cord from the wall socket. Using a 5/16” socket wrench, remove the six bolts holding the lower lift cover to the base and remove the cover.
2. Using a #2 Phillips screwdriver, remove the three screws holding the upper lift cover to the base.
3. Using a 5/16” nut driver, remove the two screws holding the front and back metal access panels to the lift housing assembly and remove the panels.
4. Disconnect the two connectors (A) at the motor capacitor.
5. Disconnect the white connector (B) from the power cord.
6. Using side cutters, cut the cable ties holding the capacitor (C) to the base and remove the capacitor.
7. Using a 3/16” hex Allen socket, remove the four screws (D) holding the motor assembly in the lift housing and remove the motor assembly.
8. Use the access holes in the lift housing to view the alignment of the new motor drive shaft to the motor coupler. Lift the motor into place and secure it with the bolts removed in step 7. Hold the nuts that the bolts are being turned into through the access holes until the threads of the bolts are started.
9. Using cable ties, reinstall the new capacitor to the base.

NOTE
The drive shaft on the new motor probably will have to be turned to be aligned with the coupler. Use a 7/16” open end wrench to turn the drive shaft of the motor.

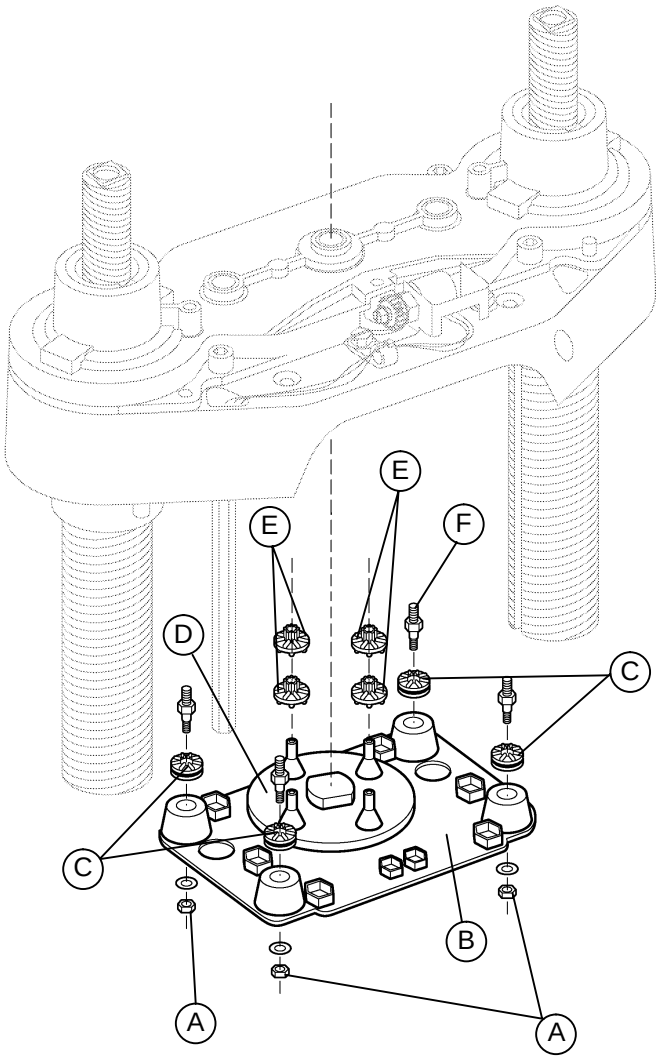
10. Reattach the three connectors, return all wiring to its original position and reinstall all panels and covers.

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

LIFT MOTOR ISOLATION PLATE REPLACEMENT

Required Tools:

#2 Phillips Screwdriver
3/8” Socket Wrench
Needle–Nose Pliers
3/16” Hex Allen Socket (w/6” ext.)
1/4” Nut Driver
3/16” Punch
5/16” Nut Driver
5/16” Socket Wrench
3/8” Open End Wrench
Hammer
7/16” Open End Wrench



Procedure:

1. Unplug the bed power cord from the wall socket.
2. Using a #2 Phillips screwdriver, remove the three screws holding the upper lift cover to the base.
3. Using a 5/16” socket wrench, remove the six bolts securing the lower lift cover to the base and remove the cover.
4. Using a 5/16” nut driver, remove the two screws holding the front and back metal access panels to the lift housing assembly and remove the panels.
5. Using a 3/16” hex Allen socket with a 6” extension, remove the four bolts holding the lift motor to the base and carefully lower the motor to the floor.

LIFT MOTOR ISOLATION PLATE REPLACEMENT (CONTINUED)

6. Remove the motor coupler (D) and bushings (E) through the access holes.
7. Using a 3/16” punch and hammer, remove the top roll pin on the manual drive hex shaft coupling and set the shaft and coupler assembly aside.
8. Using a 3/8” open end wrench, remove the four stand–offs (F) from the lift housing and lower the isolation plate (B) with the attached stand–offs.
9. Using a 3/8” socket, remove the two nuts and washers (A) and the two stand–offs from one end of the isolation plate and set the nuts, washers and stand–offs aside.
10. Rotate the end of the isolation plate with the stand–offs removed toward the access opening and tilt it up and out of the opening.
11. Remove the two remaining stand–offs from the isolation plate. Attach the two stand–offs to one end of the new isolation plate.
12. Reverse the above steps to reattach all components to the bed.

CAUTION

When re–installing the stand–offs to the lift housing, do not use a wrench to start the threads of the stand–offs and take care to unstall them straight or damage to the stand–offs could occur.

NOTE

When reinstalling the lift motor, use the access holes in the lift housing to view the alignment of the motor drive shaft to the motor coupler. The drive shaft on the motor probably will have to be turned to be aligned with the coupler. Use a 7/16” open end wrench to turn the drive shaft of the motor.

LIFT HOUSING REMOVAL AND REPLACEMENT

Required Tools:

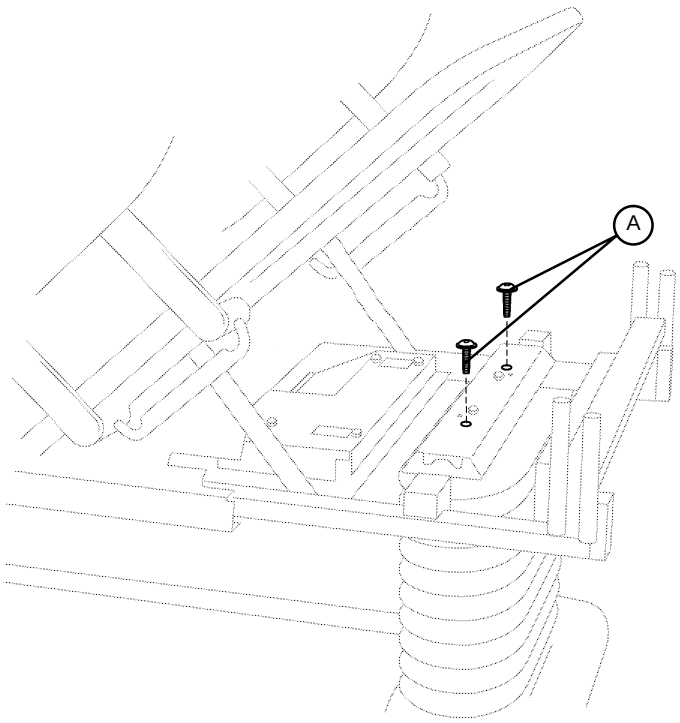
Standard Screwdriver	Phillips Screwdriver	Bungee Cord (or equivalent)
5/16” Socket Wrench	9/16” Socket Wrench	Needle–Nose Vise Grip Pliers
3/8” Open End Wrench	Small Standard Screwdriver	5/16” Open End Wrench
Side Cutters	5/16” Nut Driver	7/32” Hex Allen Socket Wrench
3/8” Hex Allen Socket (w/ approx. 6” extension)		Sawhorses (or equivalent)

Procedure:

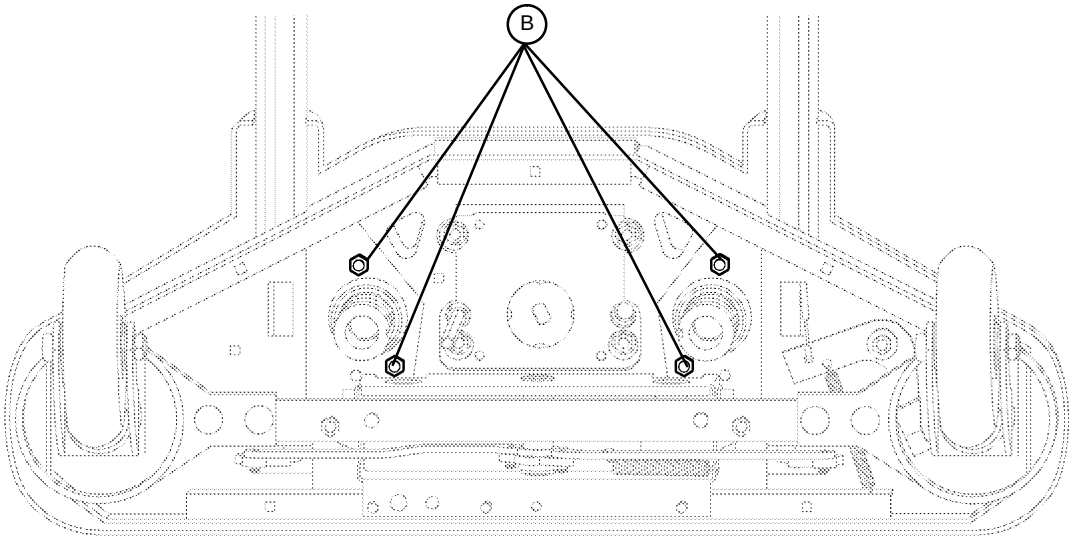
1. Unplug the bed power cord from the wall socket.
2. Using a 5/16” socket wrench, remove the six bolts holding the lower lift cover to the base and remove the cover.
3. Using a #2 Phillips screwdriver, remove the three screws holding the upper lift cover to the base.
4. Using a #2 Phillips screwdriver, remove the four screws holding the litter access panel at the end of the bed needing service.
5. Remove the lift motor and capacitor (refer to procedure on page 59).
6. Remove lift potentiometer (refer to procedure on page 66).
7. Using a 5/16” open end wrench, remove the cable clamps holding the power and sensor coil cords on top of the lift housing. Cut the cable ties and disconnect the coil cords from underneath the lift housing. The power and sensor coil cords are now free from the lift housing assembly. Drape them up out of the way.
8. Using a 7/32” hex Allen socket, remove the two screws (A) holding the lift screws to the header crossbar plate.

CAUTION

The bed litter retracts on rollers. Secure it to prevent it from rolling while the procedure is being done.



LIFT HOUSING REMOVAL AND REPLACEMENT (CONTINUED)



FOOT END – BOTTOM VIEW

9. Lift the litter top up and support it about 6” above the lift screws with sawhorses or the equivalent.
10. Under the base, using a 9/16” socket, remove the four nuts (B) holding the lift housing to the base.
11. Lift up and out on the lift housing assembly to remove it from the base.

CAUTION

See pages 68 and 69 for proper reattachment procedure for power and sensor coil cords.

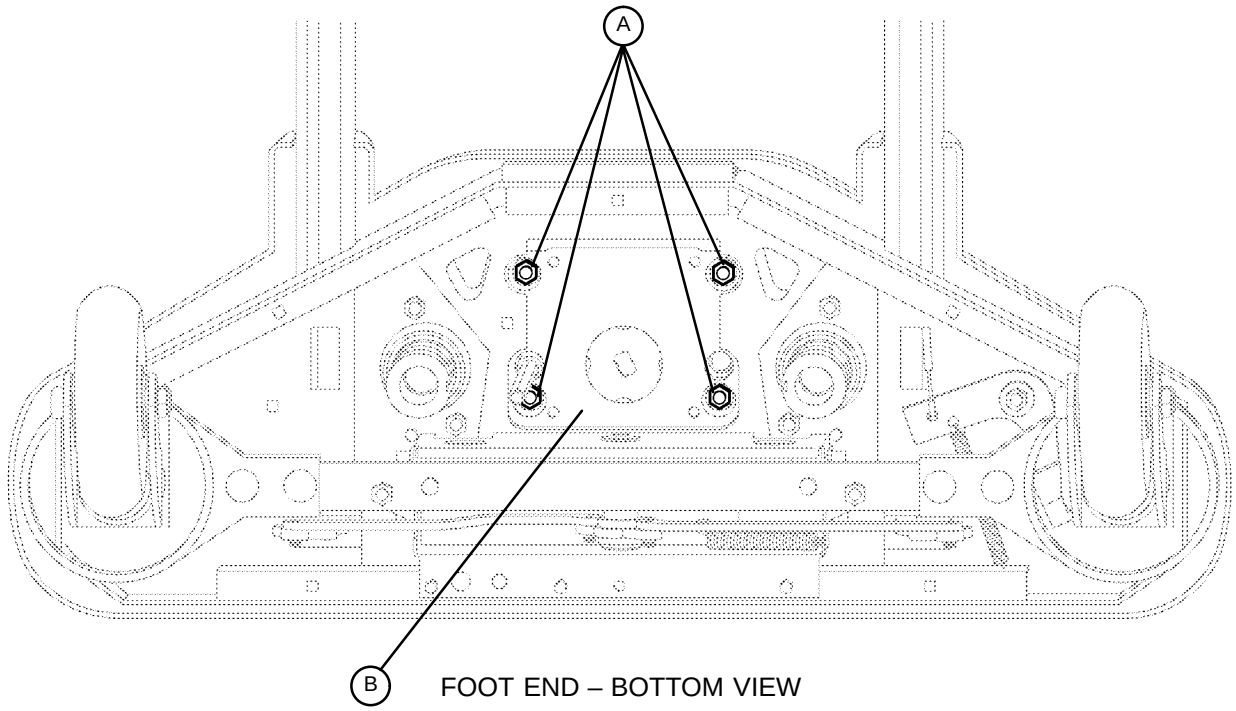
12. Reverse the above steps to reinstall the lift housing assembly after service is completed.

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

LIFT MOTOR COUPLER REPLACEMENT

Required Tools:

#2 Phillips Screwdriver	Bungee Cord (or equivalent)	5/16” Socket Wrench
5/16” Nut Driver	1/2” Socket (w/extension)	

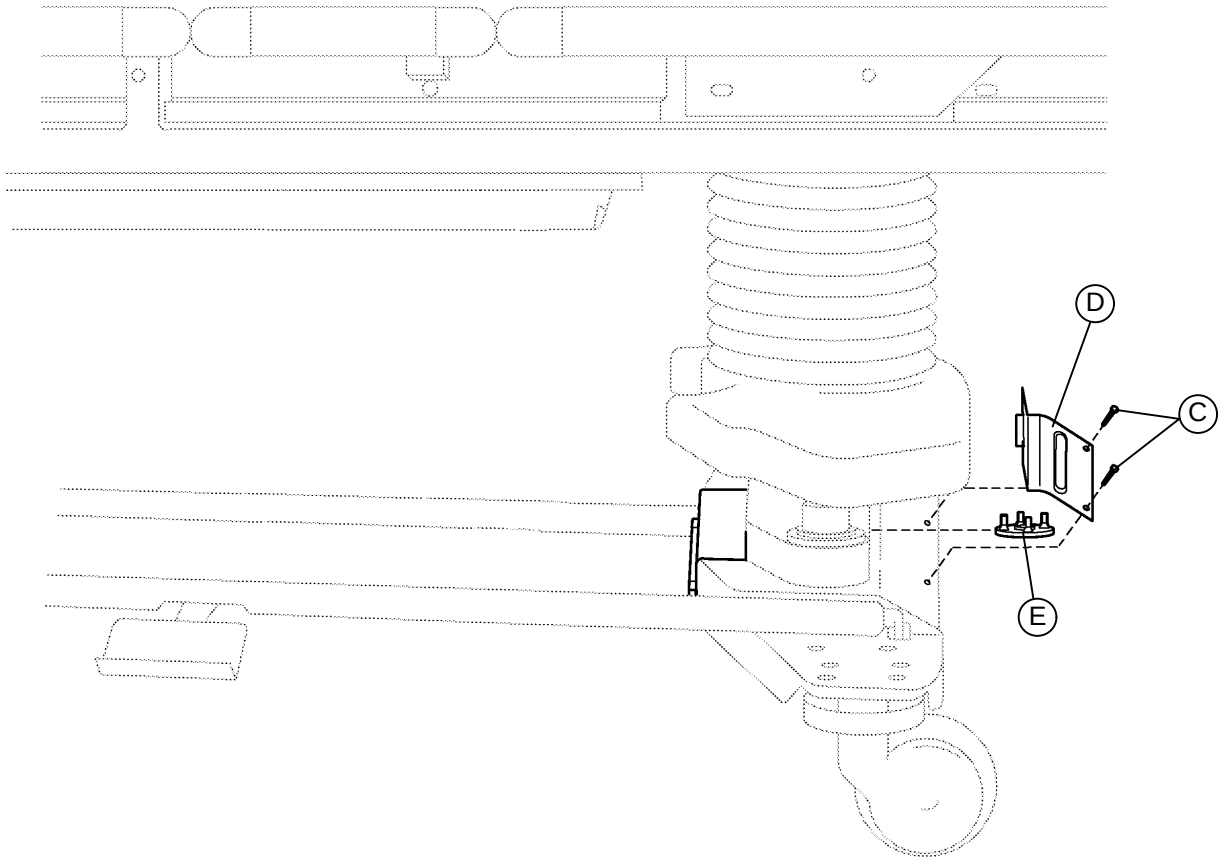


FOOT END – BOTTOM VIEW

Procedure:

1. Unplug the bed power cord from the wall socket.
2. Using a #2 Phillips screwdriver, remove the three screws holding the upper lift cover to the base.
3. Using a 5/16” socket wrench, remove the six bolts holding the lower lift cover to the base and remove the cover.
4. Using a 3/8” socket with extension, remove the four nuts and washers (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. Take care not to drop the isolation plate onto the base.

LIFT MOTOR COUPLER REPLACEMENT (CONTINUED)

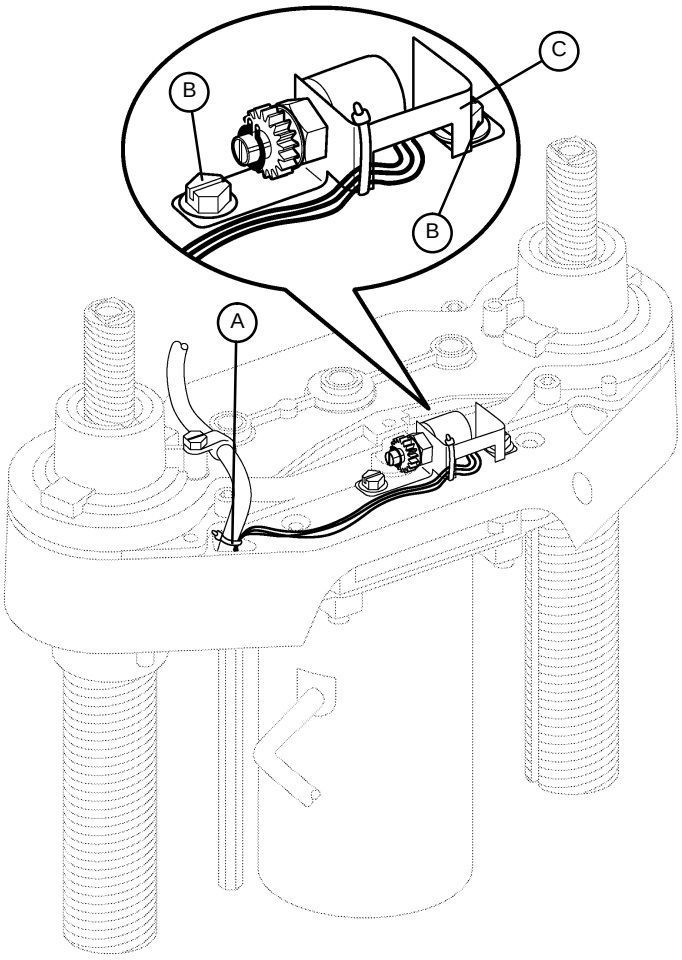


5. Using a 5/16” nut driver, remove the two screws (C) holding the metal access panel (D) to the lift housing.
6. The motor coupler (E) can now be removed from the lift housing through the access hole.
7. Reverse the above steps to install the new motor coupler and bushings.

LIFT POTENTIOMETER REPLACEMENT AND ADJUSTMENT

Required Tools:

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



Procedure:

1. Unplug the bed power cord from the wall socket.
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.
4. Using side cutters, cut the cable tie (A) holding the pot cable to the coil cord.
5. 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.
6. Pull the pot cable up through the base.
7. 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)

8. Lift up and out on the pot housing assembly to remove it from the lift housing.
9. 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.
10. Reverse steps 4–8 to install the new pot and pot housing assembly.

NOTE
Be sure to maintain the pot position while installing.

11. After installing the new pot, the “burn–in” procedure below must be followed.

LIFT POTENTIOMETER “BURN–IN” PROCEDURE

1. Unplug the bed power cord from the wall socket.
2. On the foot board control panel, hold down the Lights, Fowler Lock Out, and Up/Down Lock Out buttons simultaneously.
3. While holding down the above three buttons, plug the power cord into the wall socket. The Lights button on the foot board control panel should flash, indicating the bed is in diagnostics.
4. Run both ends of the bed full down to a “hard stop”.
5. Hold down 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 up, then full down to verify the bed limits.
8. The distance between the floor and the top of the litter seat section (without a mattress) should be 16”–16 3/8” with the litter fully down and 29 1/4” – 29 7/8” with the litter fully up.

NOTE
These values are for beds equipped with 6 inch casters. Add two inches to both measurements for beds equipped with 8 inch casters.

POWER AND SENSOR COIL CORD REPLACEMENT

Required Tools:

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

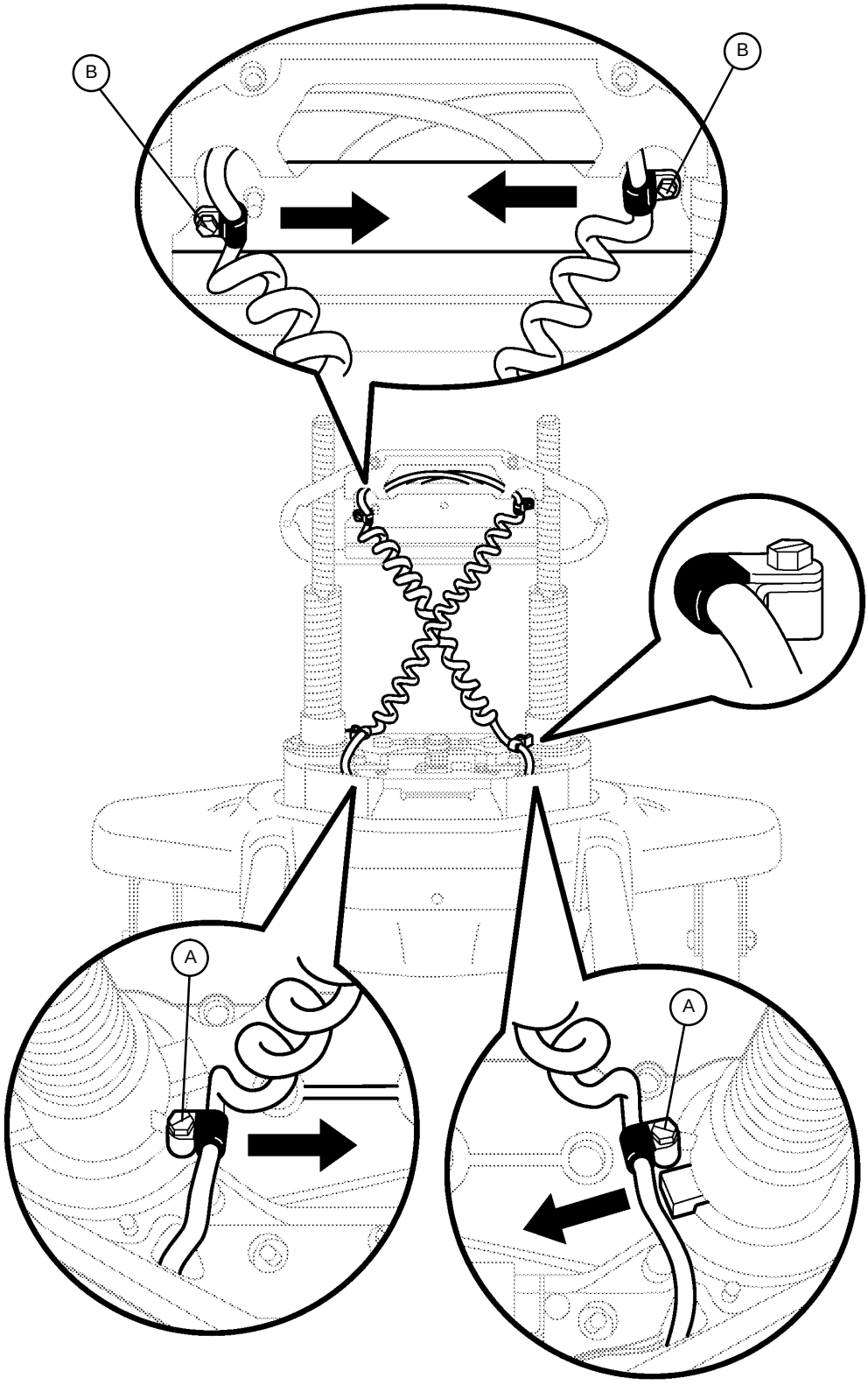
Procedure:

1. Unplug the bed power cord from the wall socket.
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.
4. Using a #2 Phillips screwdriver, remove the four screws holding the litter access panels at the end of the bed needing service.
5. 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).
6. 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).
7. Pull both cords up through the frame of the bed and the lift housing.
8. Using a 5/16” nut driver, remove the two screws (A) holding the cable clamps* to the top of the lift housing.
9. Using a 5/16” nut driver, remove the two screws (B) securing the cable clamps* to the underside of the header crossbar assembly.
10. Pull both coil cords up through the header crossbar assembly.
11. Disconnect the power and sensor coil cords from the connectors.
12. 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 on the top and on the bottom to assure 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. 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

MOTION INTERRUPT SWITCH REPLACEMENT

Required Tools:

#2 Phillips Screwdriver	5/16” Nut Driver	3/8” Socket Wrench OR T27 Torx

NOTE
Because of fastener changes, it will be necessary to use either a 3/8” socket wrench or a T27 Torx to remove the bolts holding the ground straps to the motion interrupt pan and a Phillips screwdriver or a T27 Torx to remove the bolts securing the litter access panels.

Procedure:

1. Unplug the bed power cord from the wall receptacle.
2. Using a 3/8” socket wrench or a T27 Torx, remove the two bolts holding the ground straps to the motion interrupt pan at the foot end of the bed.
3. Using a 5/16” nut driver, remove the two bolts holding the motion interrupt pan to the litter and remove the motion interrupt pan.
4. Using a #2 Phillips screwdriver or a T27 Torx, remove the four screws securing the litter access panel at the end of the bed needing service and remove the panel.
5. Disconnect the two wires at the switch being replaced.

NOTE
Take note of the terminals being used on the switch so the wires will be attached properly to the new switch.

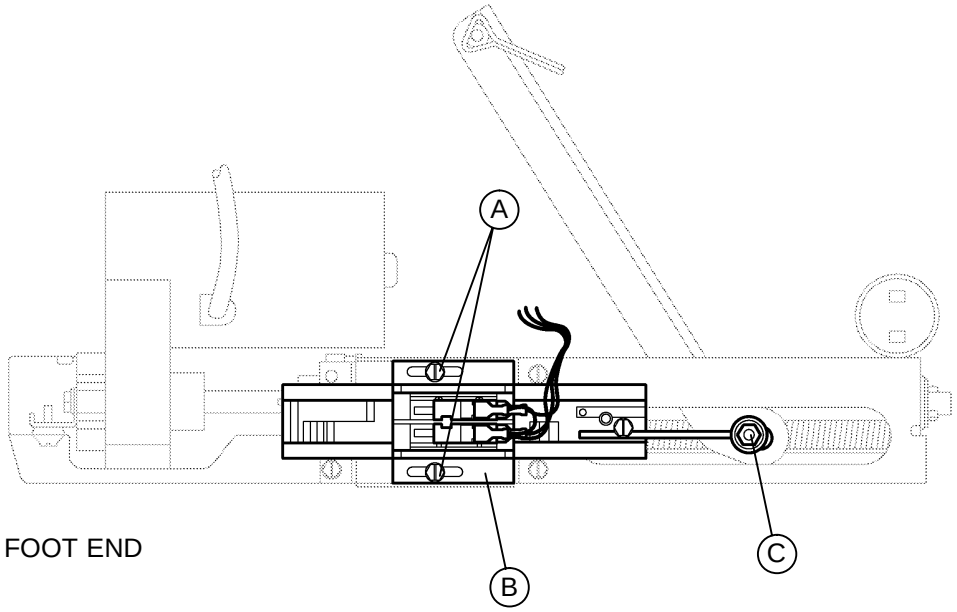
6. Squeeze the retention clips on the switch and push down on the switch to remove it.
7. Reverse the above steps to install the new switch.
8. Activate the motion stop system to assure it is functioning properly: press and hold down the BED DOWN key. As the bed lowers, lift up on each corner of the motion interrupt pan individually and assure the downward motion stops each time. Release the pan and allow the downward motion to continue.

LIMIT SETTING – KNEE MOTOR

Required Tools:

5/16” Nut Driver 3/8” Socket Wrench or T27 Torx

NOTE
Because of fastener changes, it will be necessary to use either a 3/8” socket wrench or a T27 Torx to remove the bolts holding the ground straps to the motion interrupt pan.



Procedure:

WARNING
The knee motor is not grounded and may present electrical hazard. Use caution when working around motors.

1. Using a 3/8” socket wrench or a T27 Torx, remove the two bolts holding the ground straps to the motion interrupt pan.
2. Using a 5/16” nut driver, remove the two bolts holding the motion interrupt pan to the litter and remove the pan.
3. Lower the knee section until it is flat (0°).
4. Lightly tap the Gatch down button until the bolt and bushing (C) are centered in the slot.
5. Unplug the bed power cord from the wall socket.
6. Using a 5/16” nut driver, loosen screws (A).
7. Slide the cam guide (B) toward the head end of the bed just until the microswitch is activated (a clicking noise should be heard).

NOTE
Check that the cam “bump” is on the “foot” side of the switch actuator.

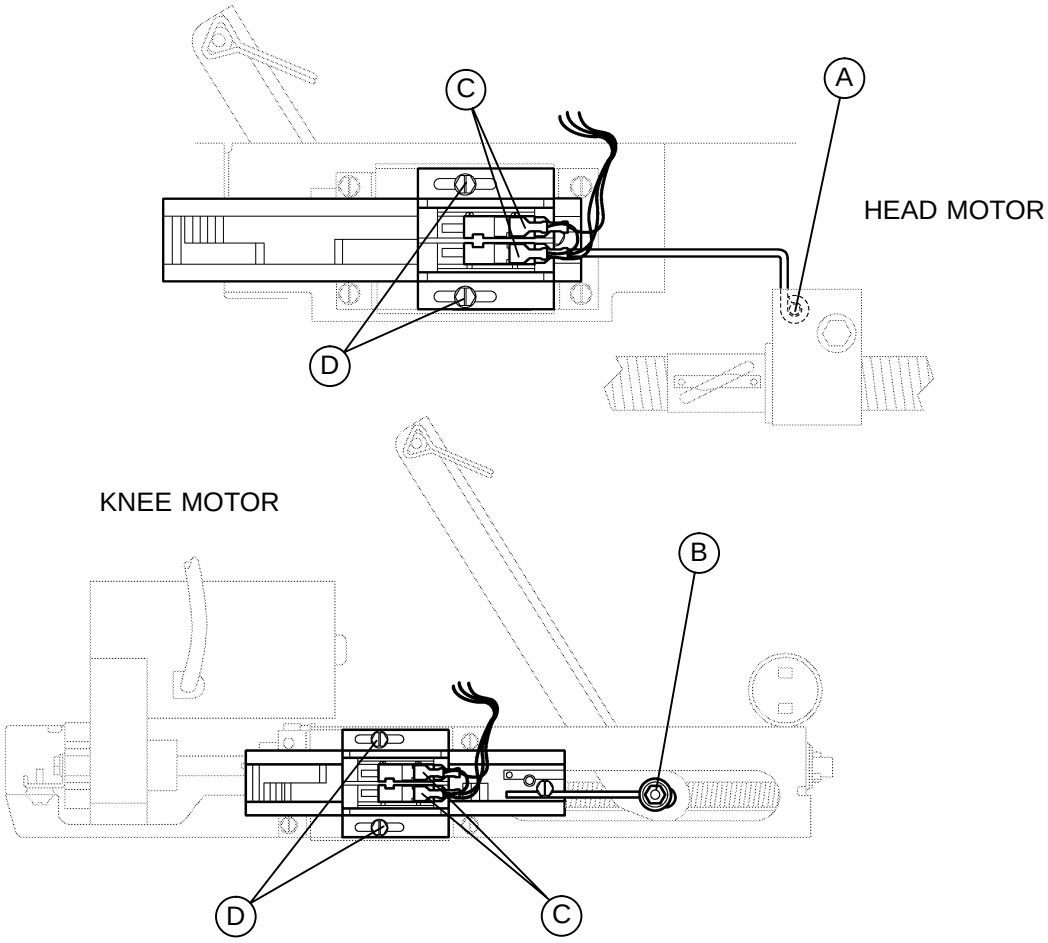
8. TIghten the screws (A).
9. Plug the power cord into a properly grounded wall receptacle.
10. Ensure the knee section will lower to flat (0°) before returning the bed to service. Verify the thigh section lowers onto the rubber rests and the motor stops running.

CAM AND CAM GUIDE REPLACEMENT – HEAD AND KNEE MOTOR

Required Tools:

5/16” Nut Driver	7/16” Nut Driver	#2 Phillips Screwdriver
7/16” Open End Wrench	3/8” Socket Wrench or T27 Torx	

NOTE
Because of fastener changes, it will be necessary to use either a 3/8” socket wrench or a T27 Torx to remove the bolts holding the ground straps to the motion interrupt pan and a Phillips screwdriver or a T27 Torx to remove the bolts securing the litter access panels.



Procedure:

1. Unplug the power cord from the wall socket.
2. Using a 3/8” socket wrench or a T27 Torx, remove the two bolts holding the ground straps to the motion interrupt pan.
3. Using a 5/16” nut driver, remove the two bolts holding the motion interrupt pan to the litter and remove the pan.
4. Using a #2 Phillips screwdriver or a T27 Torx, remove the four screws holding the litter access cover to the litter at the foot end of the bed and remove the cover.

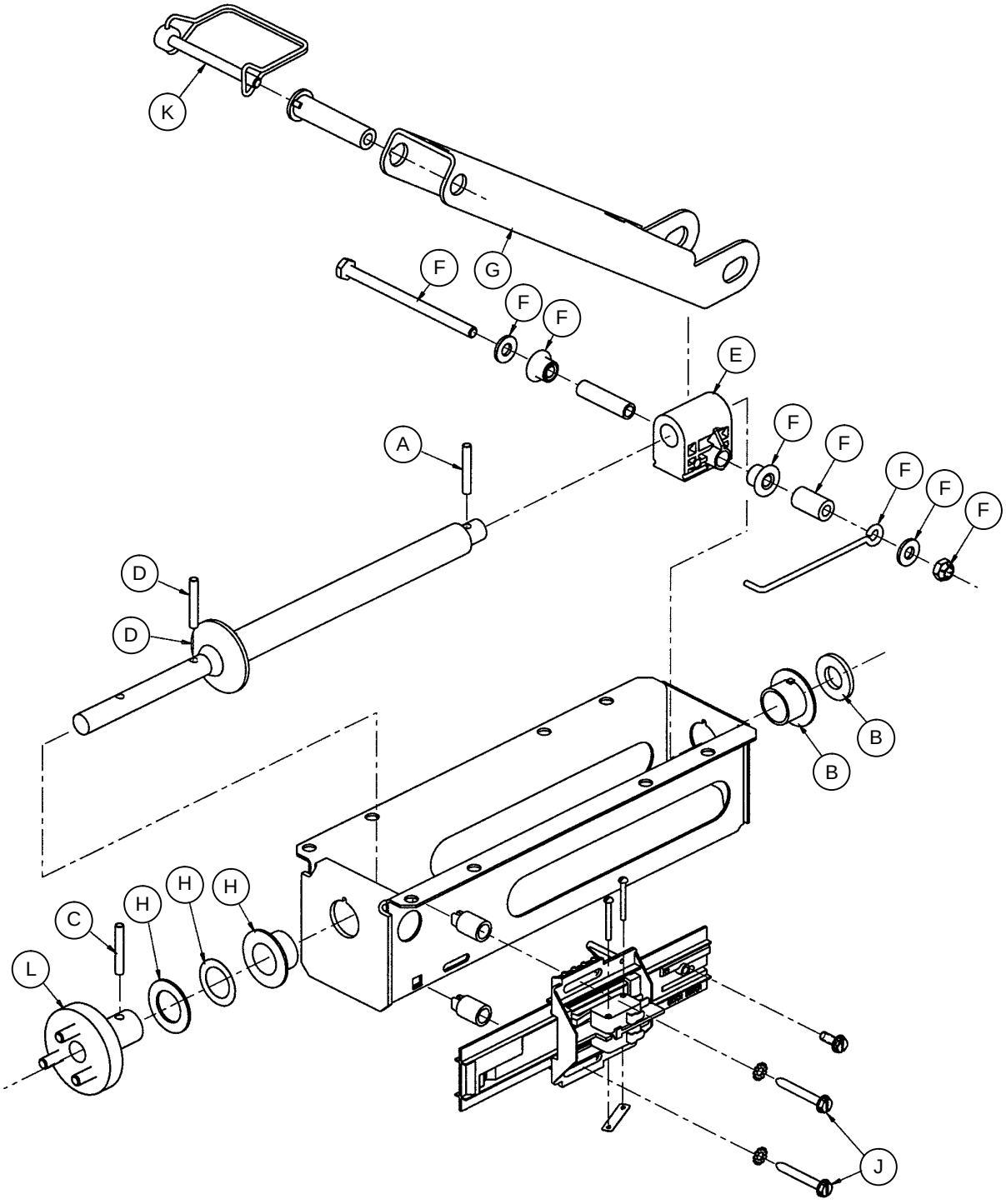
CAM AND CAM GUIDE REPLACEMENT – HEAD AND KNEE MOTOR (CONTINUED)

5. If the head motor cam and cam guide are being replaced, use a 5/16” nut driver to remove the screw (A) holding the cam retention wire to the ball nut assembly.
   If the knee motor cam and cam guide are being replaced, use a 7/16” socket and a 7/16” open end wrench to remove the nut (B) holding the cam retention wire to the bed. (Do not remove the bolt).
6. Disconnect the cables (C) from the micro switches.
7. Using a 5/16” nut driver, remove the two screws (D) holding the cam and cam guide to the support bracket and remove the cam and cam guide with the attached micro switches from the bed.
8. Reverse the above steps to install the replacement cam and cam guide/micro switch assembly.
9. If the head motor cam and cam guide were replaced, refer to page 77 for ”Limit Setting – Head Motor”.
   If the knee motor cam and cam guide were replaced, refer to page 71 for “Limit Setting – Knee Motor”.

DRIVE SCREW AND NUT REPLACEMENT – KNEE MOTOR

Required Tools:

5/16” Nut Driver	1/4” Nut Driver	Hammer
Hex Allen Wrench	Side Cutters	7/16” Open End Wrench
7/16” Socket Wrench	1/8” Punch	6” Extension



DRIVE SCREW AND NUT REPLACEMENT – KNEE MOTOR (CONTINUED)

Procedure:

1. Remove the knee motor (see page 76).
2. Unhook hitch pin (K) from the knee section.
3. Using a 7/16” socket and 7/16” open end wrench, remove the nut, bolt and washer (F) holding the drive screw nut and the cam wire link to the main link (G).
4. Unplug the four wires on the knee cam switch assembly. Note their locations so they are reattached properly during re–assembly.
5. Using a 5/16” nut driver, remove the two bolts (J) holding the cam switch assembly to the motor carriage and remove the cam switch assembly.
6. Using a 3/8” socket wrench and extension, reach under the litter and remove the four bolts holding the motor screw assembly to the litter assembly. Lower the motor carriage assembly from under the litter.
7. Place the screw assembly on a work bench in the position shown on page 74.
8. Using a 1/8” punch and a hammer, remove the roll pin (A) at the right end of the carriage assembly.
9. Remove the washer (B) and bushing at the right end of the carriage assembly.
13. Using a 1/8” punch and a hammer, remove the roll pin (C) holding the coupler (L) on the drive screw.
14. Pull the coupler off the drive screw and remove the bearing, washer and bushing (H).
15. Remove the drive screw from the carriage.
16. Remove the drive pin and washer (D) from the left end of the drive screw.
17. Turn the drive screw to remove it from the drive screw nut (E).
18. Reverse the above steps to install the new drive screw and nut and to reattach all components to the bed. Check bushings removed in steps 9 and 11 for wear and replace, if necessary.

NOTE

Generously apply Syntech grease to the drive screw nut when installing the new nut.

Before reinstalling the carriage assembly on the litter, manually turn the drive nut approximately half–way down the length of the drive screw. This will allow easier realignment to the litter.

CAUTION

Assure the knee motor stops properly at both upper and lower electric limits. If it does not, refer to page 71 for “Limit Setting – Knee Motor”.

KNEE MOTOR REMOVAL AND REPLACEMENT

Required Tools:

5/16” Nut Driver	1/4” Nut Driver	3/8” Socket Wrench
1/8” Hex Allen Wrench	#2 Phillips Screwdriver	OR
Wire Cutters		T27 Torx

Procedure:

1. Electrically run the knee section (Gatch) fully up. Unplug the power cord from the wall receptacle.
2. Remove the clevis pin from the knee section and pivot the knee section up and out of the way.
3. Using a 3/8” socket wrench or a T27 Torx, remove the two bolts holding the ground straps to the motion interrupt pan.
4. Using a 5/16” nut driver, remove the two bolts holding the motion interrupt pan to the litter and remove the pan.
5. Using a #2 Phillips screwdriver or a T27 Torx, remove the ten screws securing the foot and midsection litter access covers and remove the covers.

NOTE
If the motor is not operational, and the knee section is flat, access and remove the pull clip and clevis pin through the holes on the litter surface, and pivot the knee section of the bed up and out of the way.

6. Disconnect the two cables at the knee motor capacitor. Using wire cutters, remove the cable ties.
7. Disconnect the motor cable from the plug on the bottom of the litter.
8. Using a 5/16” nut driver, remove the three screws holding the electrical shield to the litter and remove the shield.
9. Using a 5/16” nut driver underneath the litter, remove the two screws holding the motor to the litter.

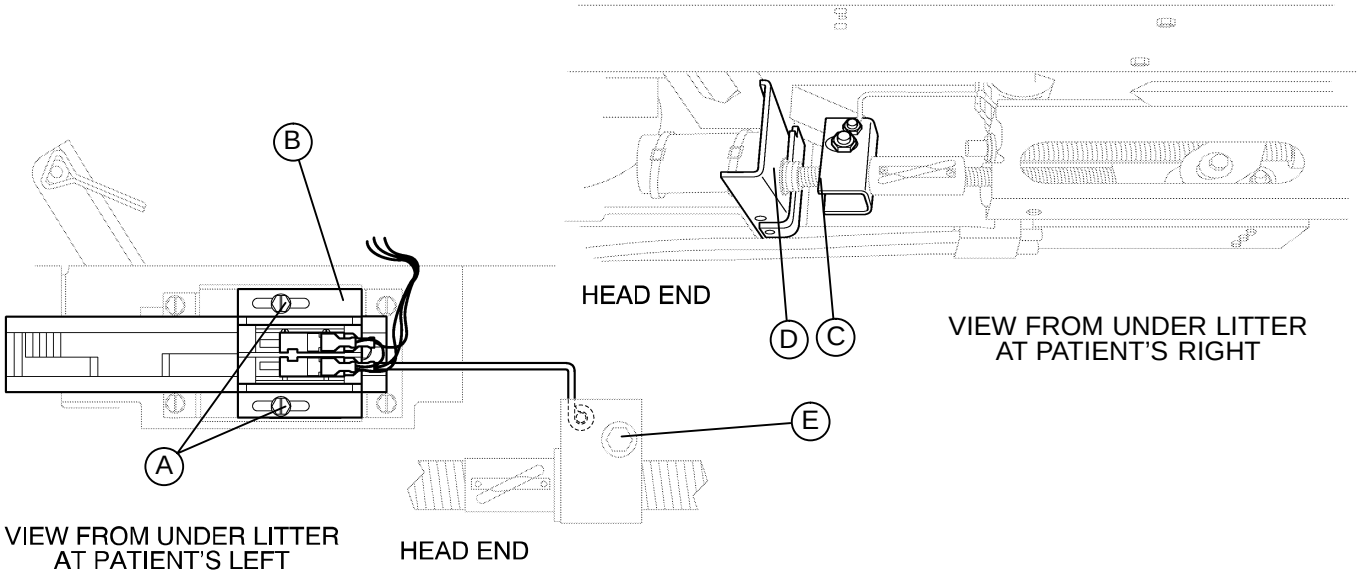
19. Using a 1/8” hex Allen wrench, loosen the set screw on the motor drive coupling and slide the drive toward the motor.
20. To remove the motor from the litter, push the motor toward the head end of the bed and lift it up and out.
21. Reverse the above steps to install the replacement motor and capacitor.

LIMIT SETTING – HEAD MOTOR

Required Tools:

#2 Phillips Screwdriver	5/16” Nut Driver	7/16” Open End Wrench
7/16” Socket	3/8” Socket Wrench or T27 Torx	

NOTE
Because of fastener changes, it will be necessary to use either a 3/8” socket wrench or a T27 Torx to remove the bolts holding the ground straps to the motion interrupt pan and a Phillips screwdriver or a T27 Torx to remove the bolts securing the litter access panels.



Procedure:

1. Using a #2 Phillips screwdriver or a T27 Torx, remove the ten screws holding the foot and midsection litter access covers to the litter and remove the covers.
2. Using a 3/8” socket wrench or a T27 Torx, remove the two bolts holding the ground straps to the motion interrupt pan.
3. Run the head section down electrically until flat (0°) or use the CPR release handle to fully lower the head.
4. Lightly tap the Fowler down button until the bolt and bushing (E) are centered in the slot.
5. Unplug the power cord from the wall socket.
6. Using a 5/16” nut driver, loosen the two screws (A) on the cam (B).
7. Slide the cam toward the head of the bed just until the microswitch is activated (the switch will make a clicking noise).

NOTE
Check that the cam ”bump” is on the ”head” side of the switch actuator.

8. Tighten the two screws (A).

CAUTION

Be sure the head section stops when it is fully up and the ball nut bracket (C) is approximately 3/4” from panel (D). If not, damage to the unit could result.

9. Ensure the head section will lower to flat (0°) before returning the bed to service. Verify the head section lowers onto the rubber rests and the motor stops running.

22. Reinstall the litter access panels removed in step 1.

HEAD MOTOR REMOVAL AND REPLACEMENT

Required Tools:

Side Cutters	5/16” Nut Driver	7/16” Socket Wrench
3/8” Socket Wrench	#2 Phillips Screwdriver	T27 Torx

NOTE

Because of fastener changes, it will be necessary to use either a Phillips screwdriver or a T27 Torx to remove the bolts securing the litter access panel.

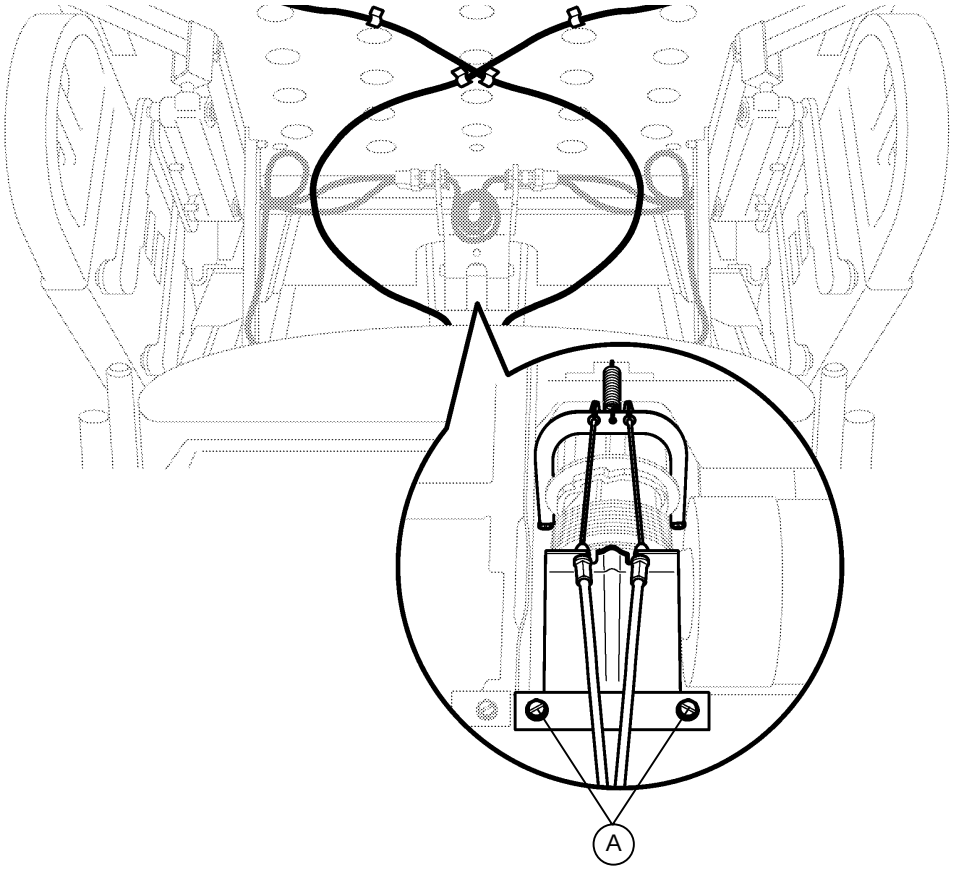
Procedure:

WARNING

The head motor is not grounded and may be an electrical hazard. Use caution when working around motors.

---

1. Run the head section up to approximately 30° – 35° for better access to the motor.
2. Unplug the bed power cord from the wall socket.
3. Using a #2 Phillips screwdriver or a T27 Torx, remove the four screws holding the head end litter access cover to the litter and remove the cover.
4. Using side cutters, cut the cable tie holding the CPR release cable to the litter (to allow clearance for lifting the motor out of the litter).
5. Using a 5/16” nut driver and a 3/8” socket wrench, remove the two screws (A) holding the CPR cable bracket to the litter. Remove the cable from the bracket and remove the bracket.



HEAD MOTOR REMOVAL AND REPLACEMENT

6. Unplug the head motor cable (B) from the bed and capacitor.

WARNING

Support the head section with a wooden brace (2 x 4 or equivalent) before continuing or personal injury could result.

7. Using a 5/16” nut driver, remove the two screws and washers (C) holding the motor mount to the litter.
8. Unplug the two cables (D) at the head motor capacitor.
9. To remove the head motor from the litter, push the motor toward the foot end and lift straight up on the motor about 1”. Pull the motor toward the head end and lift it straight up and out.

NOTE

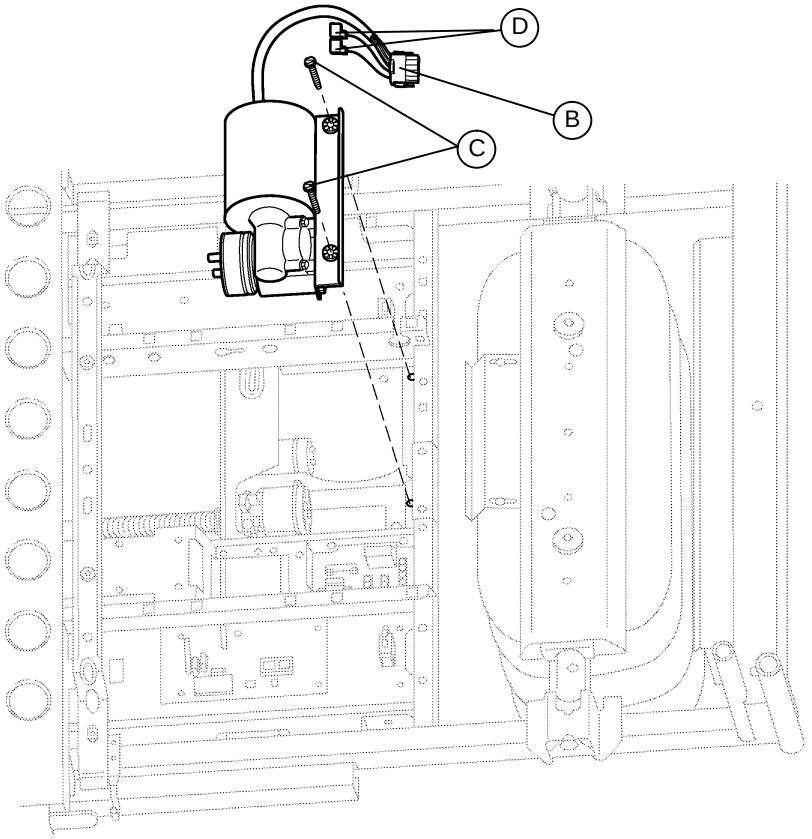
The replacement motor will come with the attached CPR clutch and clutch bushings.

23. Using a 7/16” socket, remove the two bolts holding the motor to the mounting bracket.

NOTE

The mounting bracket will be reused with the replacement motor

24. Reverse the above steps to install the new motor assembly and reattach all litter panels. Be sure to attach new cable ties wherever they were removed.

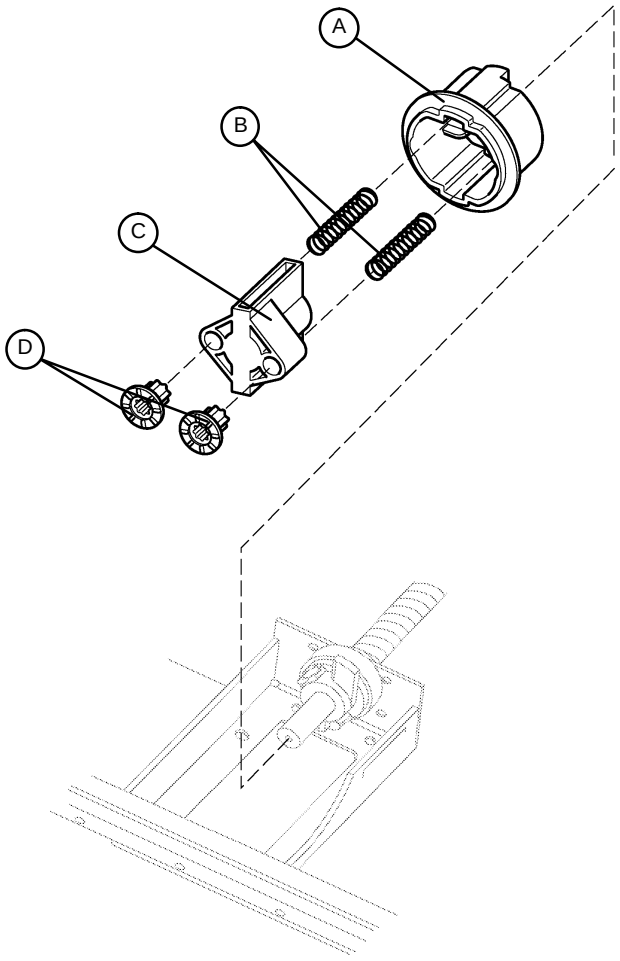


TOP VIEW

HEAD MOTOR DRIVE ISOLATOR AND CPR DECOUPLER REMOVAL AND REPLACEMENT

Required Tools:

5/16” Nut Driver	#2 Phillips Screwdriver	3/8” Socket Wrench
7/16” Socket Wrench	Wire Cutter	



Procedure:

1. Refer to page 78 for ”Head Motor Removal and Replacement” to access the isolator, springs and decoupler.
2. Pull the drive isolator (C) with the bushings (D), springs (B) and CPR decoupler (A) off the drive screw and remove it from the litter.

NOTE
These parts are spring–loaded. Use caution when removing them so they won’t drop to the floor.

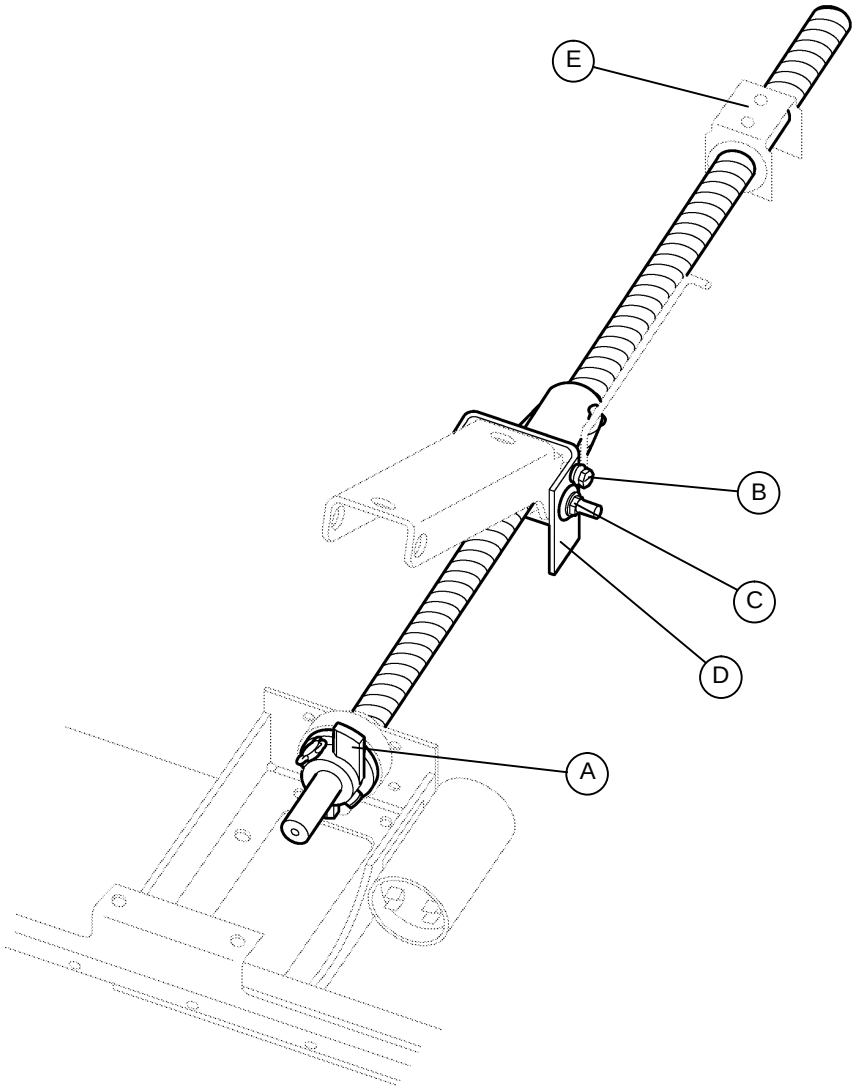
3. Reverse the above steps to install the new isolator and decoupler.

DRIVE SCREW AND BALL NUT REPLACEMENT – HEAD MOTOR

Required Tools:

1/4” Nut Driver	5/16” Nut Driver	7/16” Socket Wrench
Needle–Nose Pliers	7/16” Open End Wrench (2)	3/8” Socket Wrench or T27 Torx

NOTE
Because of fastener changes, it will be necessary to use either a 3/8” socket wrench or a T27 Torx to remove the bolts holding the ground straps to the motion interrupt pan.



Procedure:

1. Unplug the power cord from the wall socket.
2. Using a 3/8” socket wrench or a T27 Torx, remove the two bolts holding the ground straps to the motion interrupt pan.
3. Using a 5/16” nut driver, remove the two bolts holding the motion interrupt pan to the litter and remove the pan.
4. Remove the head motor (see page 78) for access to the screw and ball nut.
5. Remove the head motor drive isolator and CPR decoupler (see page 80).
6. Using needle–nose pliers, remove the cotter pin holding the clevis pin to the drive screw ”wing” (A).

DRIVE SCREW AND BALL NUT REPLACEMENT – HEAD MOTOR (CONTINUED)

7. Remove the clevis pin and slide the wing and tapered roller bearing off the drive screw.
8. Using a 5/16” nut driver underneath the litter, remove the screw holding the cam retention wire (B) to the ball nut assembly.
9. Slide the cam and retention wire as far toward the foot end of the bed as possible to allow proper clearance for removal of the drive screw.
25. Remove the hinge pin from the Fowler and main link.
26. To prevent the ball nut from coming off the drive screw, cable tie both ends of the ball nut to the drive screw.
27. Pull the drive screw toward the foot of the bed and remove the head end of the drive screw and ball nut assembly from the support (D). Push the drive screw toward the head end of the bed and remove the foot end of the screw from the glide bushing support (E).

NOTE
Do not allow the ball nut assembly to come off the drive screw. The ball nut will be shipped attached to the drive screw and retained in position during shipment. Remove the restraining straps **after** installing the drive screw and nut.

28. Remove the thrust washers and bearing from the head end of the drive screw and set them aside.
29. Using two 7/16” open end wrenches, remove the bolt, nut and bushings (C) supporting the ball nut assembly on the Fowler link.
30. Reverse the above steps to install the replacement drive screw and ball nut assembly.

NOTE
Apply grease to all bearing areas.

CAUTION

Verify the head motor stops properly at both upper and lower electric limits. If it does not, refer to page 77 for ”Limit Setting – Head Motor”.

CPR CABLE ADJUSTMENT/REPLACEMENT

Required Tools:

Needle–Nose Pliers (2) 10 mm Open–End Wrenches

NOTE

The CPR emergency release allows quick access to the patient when the head section is raised. When handle (A) is squeezed, the attached cable (B) pulls the CPR bracket (C) which pulls the motor coupler out of the drive screw and causes the head section to drop. If this doesn't happen when the handle is squeezed, cable adjustment or replacement may be required.

Cable Adjustment Procedure:

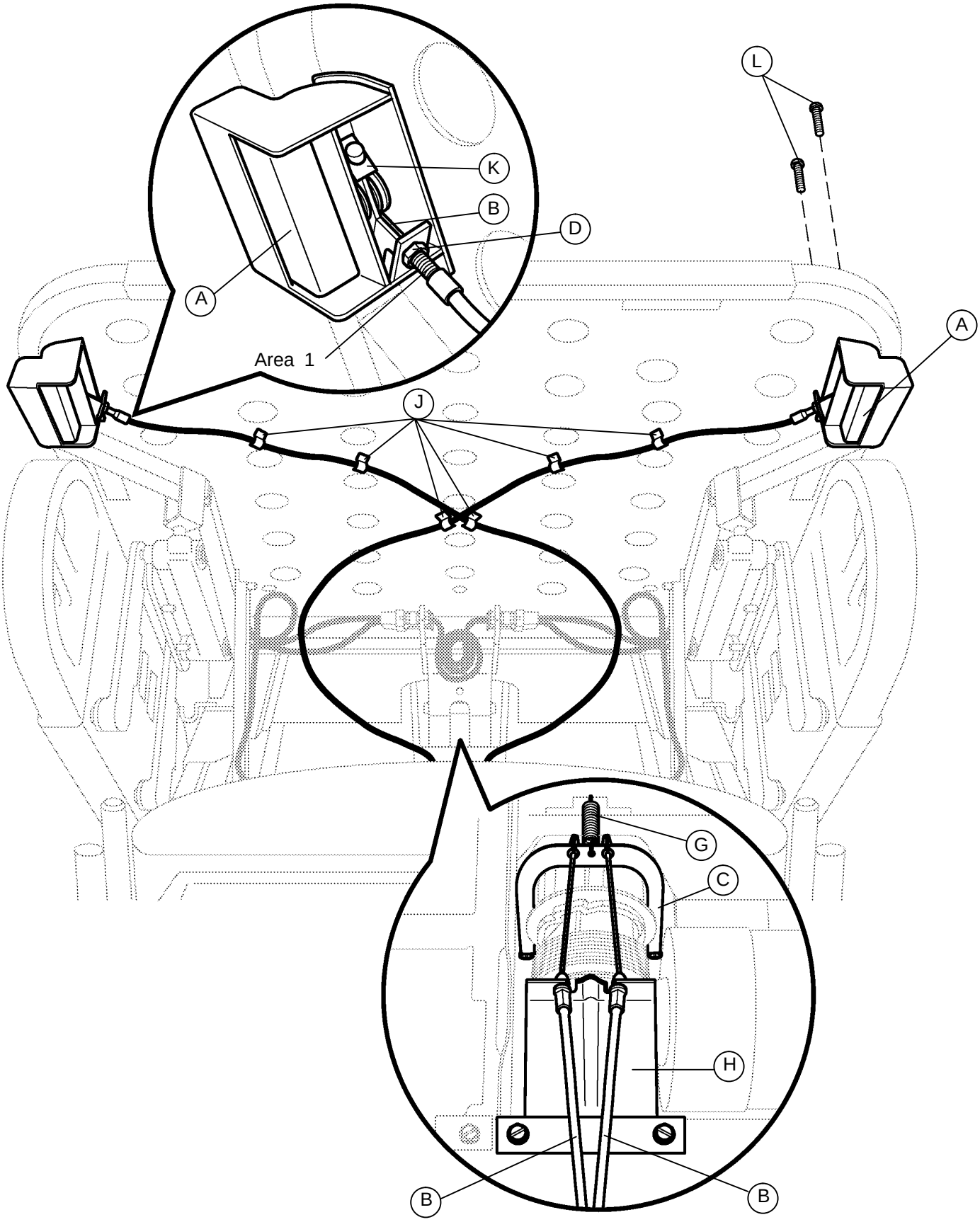
1. If the motor coupler is not pulled far enough away from the motor drive screw when the handle (A) is squeezed to allow the head section to drop, use two 10 mm open–end wrenches to loosen the two jam nuts (D) holding the cable in position (one nut is not shown). Turn the nuts to allow **less** thread exposure in area 1 (as shown in the illustration on page 84). When adjusted properly, the CPR coupler (E) and CPR "wing" (F) should be separated, as shown in view two of the illustration on page 85, when the handle is squeezed fully. When the handle is released, the CPR coupler (E) and "wing" (F) should fit tightly, as shown in view one of the illustration. Tighten the nuts when the proper adjustment is achieved.

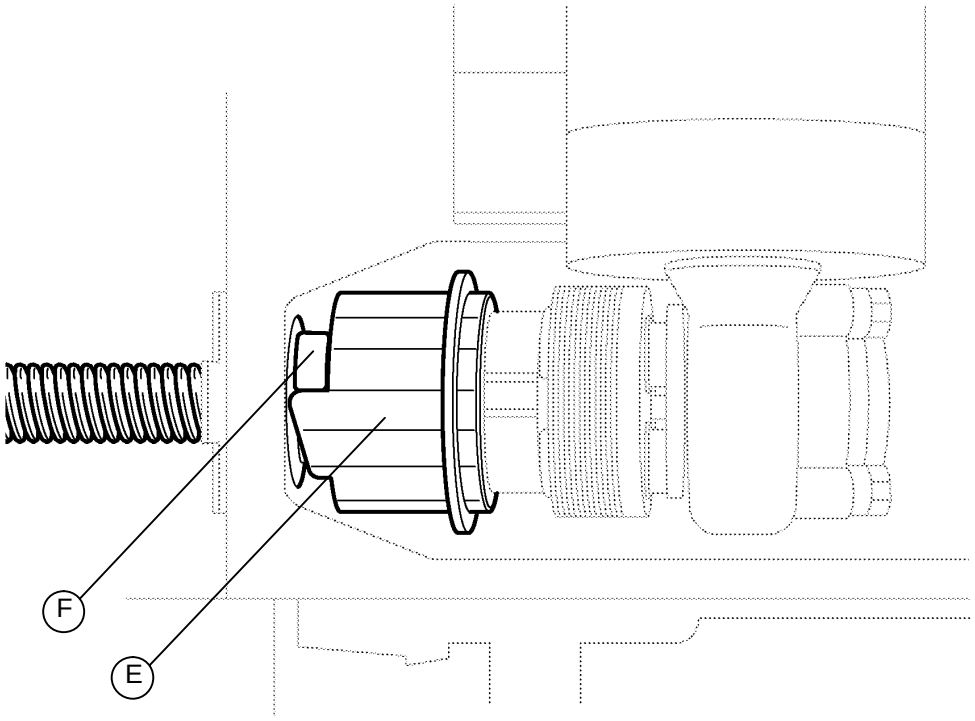
Cable Replacement Procedure:

1. Unplug the bed power cord from the wall socket. Using needle–nose pliers, remove the tension spring (G) from the CPR bracket (C).
2. Remove the cable to be replaced from bracket (C) and bracket (H).
3. Remove the cable from the cable retainers (J).
4. Remove the cable from the bracket on the handle.
5. Using two 10 mm open–end wrenches, remove the two nuts (D) (one not shown) and remove the cable from the handle.
6. Reverse steps 1–5 to install the new cable. Refer to the procedure above for cable adjustment.

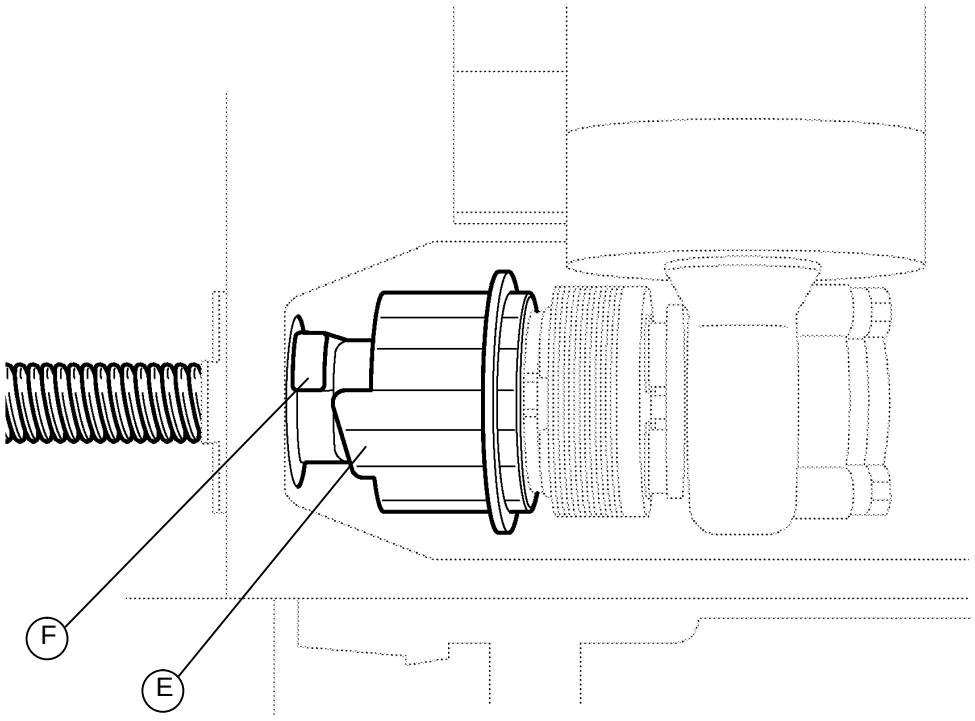
CPR CABLE ADJUSTMENT/REPLACEMENT

1. Unplug the bed power cord from the wall socket. Using needle–nose pliers, remove the tension spring (G) from the CPR bracket (C).
2. Remove the end of the cable at the handle from bracket (K).
3. Using two 10 mm open–end wrenches, remove the two nuts (D) (one not shown) and remove the cable from the handle.
4. Using a Torx screwdriver, remove the two screws (L) holding the handle assembly to the litter and remove the handle.
5. Reverse the above procedure to install the new handle. See above procedure to cable adjustment.


L
K
B
D
A
Area 1
A
J
G
C
H
B
B



VIEW 1



VIEW 2

TOP VIEW

WEIGH SYSTEM DIAGNOSTIC PROCEDURE

Diagnostic Mode Functions:

1. **Calibrate Scale:** This may be required in the field if the scale CPU is replaced.
2. **Init. to Defaults:** This may be required in the field when replacing the scale CPU board.
3. **Display Corner:** This function displays the individual corner weights for each load cell assembly and can be used to isolate a defective load cell.
4. **Exit Diagnostics:** Changes made in the diagnostic mode (with the exception of Calibrate Scale) **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 bed's power cord from the wall socket.
2. Press and **hold down** the LBS/KGS key.
3. While still holding the LBS/KGS key, plug the bed's power cord into the wall socket.
4. After two seconds, release the LBS/KGS key. The scale monitor should read CALIBRATE SCALE. The diagnostic mode is now active.

Special Key Functions in the Diagnostics Mode:

NOTE
By pressing the LBS/KGS key, the diagnostic mode functions can be scrolled.
To enter the selected mode, press the SCALE ON key.

The four keys listed in the group below function as POSITION keys corresponding with the four corners of the bed's litter. Whenever the scale monitor displays PICK CORNER NOW, press one of these keys to select the load cell assembly at the desired corner.

A. ZERO = head end, patient's right side

B. MINUS = foot end, patient's left side

C. DELTA = head end, patient's left side

D. PLUS = foot end, patient's right side

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 scale monitor will display CALIBRATE when the diagnostic mode is active.
2. Press and release LBS/KGS until the scale monitor displays DISPLAY CORNER.
3. Press and release SCALE ON. The scale monitor should display PICK CORNER NOW.
4. Press and release the position key that corresponds with the load cell to be checked. The scale monitor 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 actual weight load on 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 bed indicates a problem with the selected load cell assembly or load cell cable.
6. When all the load cell outputs have been checked, press and release SCALE ON. To exit diagnostics, unplug the bed's power cord from the wall socket.

Scale Calibration

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

1. Zero the empty bed. Place a known weight on the center of the bed; 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, use the following procedure to calibrate the scale:

A. Remove the weight from the bed and place the scale CPU in diagnostics mode (see diagnostic mode section on previous page).

B. The scale monitor should display CALIBRATE SCALE

C. Press and hold SCALE ON. Zero the bed, following the displayed instructions. When the bed is zeroed, the scale monitor should display REF X100=<2>000.0

D. The displayed number must now be changed to match the known weight times 100. For example, if you weighed yourself on a known accurate scale and you weigh 192.4 pounds, you would change the REF number to equal 19240. Change the REF number using the LBS/KGS key to position the brackets (<>) around the digit needing to be changed and the "+" key to scroll through the bracketed digit.

E. After the number is corrected, press and release SCALE ON. The scale should display ADD LBS, HIT ON.

F. Place the weight used in step one on the center of the bed and press and hold SCALE ON. The scale monitor should display RELEASE TO CAL.

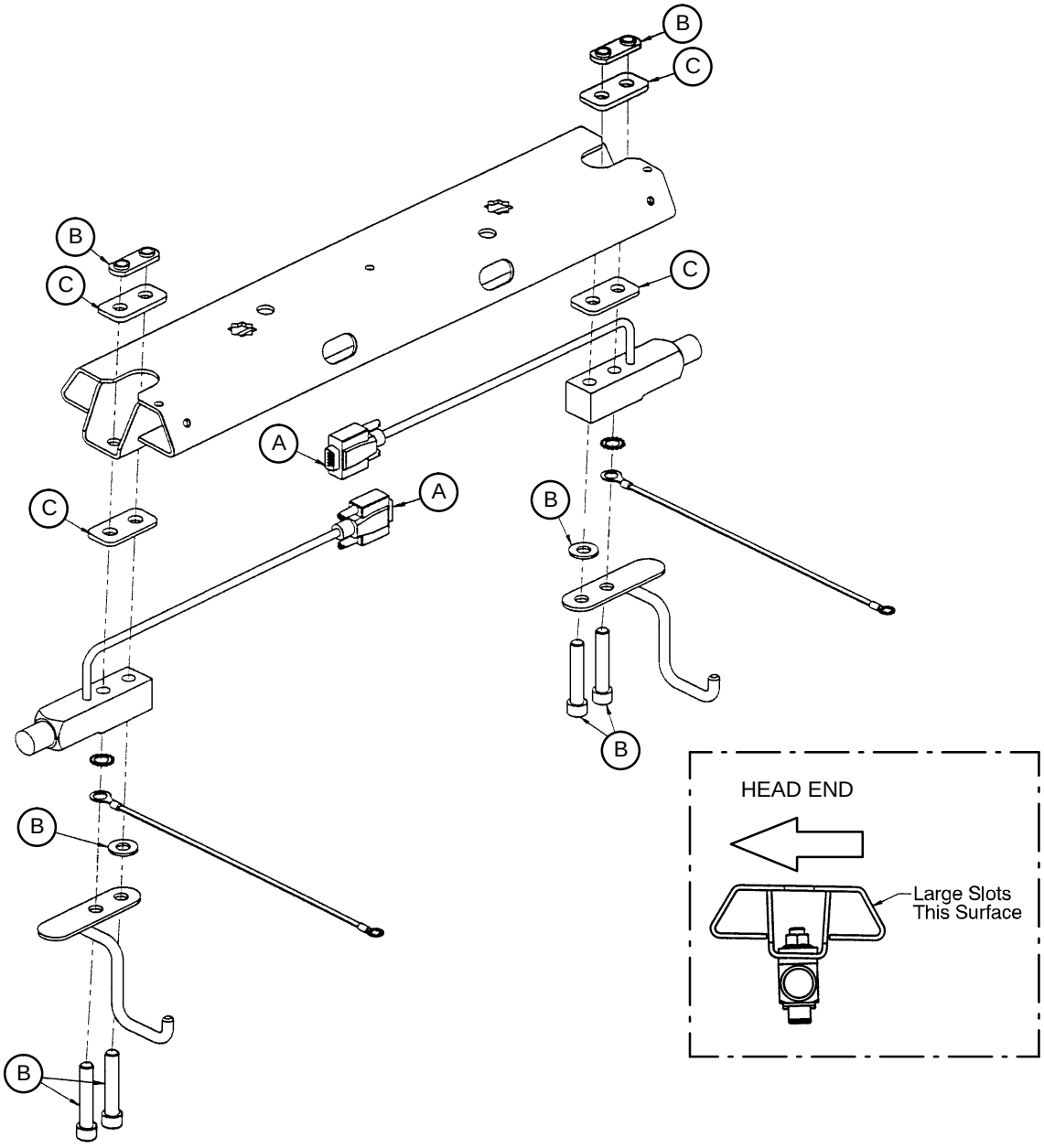
G. Release SCALE ON. The scale monitor should display DO NOT TOUCH BED. Don't touch the bed. When calibration is complete, the scale monitor should display CALIBRATE SCALE.

H. Calibration is now complete, press LBS/KG until EXIT DIAGNOSTICS appears. Press SCALE ON and the display will read WEIGHING. Re–zero the empty bed. Check the scale accuracy with the weight used previously.

LOAD CELL REPLACEMENT

Required Tools:

#2 Phillips Screwdriver or T27 Torx 5/16” Nut Driver Side Cutters
1/4” Hex Allen Wrench



Procedure:

1. Unplug the bed power cord from the wall socket.
2. Using a #2 Phillips screwdriver or a T27 Torx, remove the four screws securing the litter access cover at the end of the bed needing service and remove the cover.

LOAD CELL REPLACEMENT (CONTINUED)

3. Using a 5/16” nut driver, remove the bolt holding the load cell cable connector cover and remove the cover.
4. Support the corner of the litter where the load cell is being removed.
5. Unplug the load cell connector (A) from the load cell cable. Using side cutters, cut the cable ties.
6. Using a 1/4” hex Allen wrench, remove the two screws, washers, and nuts (B) holding the load cell to the bed.
7. When removing the load cell at the head end of the bed, slide the load cell toward the center of the bed to clear the bushing that supports the load cell. Remove the load cell by lifting it up and out. When removing the load cell at the foot end of the bed, slide the load cell with the roller bushing toward the center of the bed to clear the litter frame. Remove the load cell and the roller bushing by lifting them up and out.

NOTE
If your bed is equipped with a scale system, there are two tapered shims (C) for each load cell. Refer to detail 1 on page 88 as reference for proper installation of the shims. Proper installation of these shims is very important for scale accuracy.

8. Reverse the above procedure to install the new load cell.

CAUTION

Be sure the load cell’s strain gauge is facing up when installing a new load cell or the weigh system will not work properly.

9. Recalibrate the weigh system (see page 87).

POWER BOARD REPLACEMENT

Required Tools:

1/4” Nut Driver #2 Phillips Screwdriver or T27 Torx Needle–Nose Pliers

NOTE
Because of fastener changes, it will be necessary to use either a Phillips screwdriver or a T27 Torx to remove the bolts securing the litter access panel.

Procedure:

1. Properly ground yourself (see page 29 for static discharge precautions).
2. Using a #2 Phillips screwdriver or a T27 Torx, remove the two screws holding the head end litter access cover and remove the cover.
3. Disconnect all cables at the power board. Note the locations of the cables so they will be reconnected properly to the replacement power board.
4. To remove the board from the litter standoffs, use a 1/4” nut driver to remove the six screws holding the board to the litter.
5. Install the new board and reconnect all cables.
6. Reinstall the litter access panel and plug the bed power cord into a properly grounded wall receptacle.
7. Test the bed for accurate operation before returning it to service.

LITTER CPU BOARD REPLACEMENT

Required Tools:

#2 Phillips Screwdriver or T27 Torx

NOTE
Because of fastener changes, it will be necessary to use either a Phillips screwdriver or a T27 Torx to remove the bolts securing the litter access panel.

Procedure:

1. Properly ground yourself (see page 29 for static discharge precautions).
2. Using a #2 Phillips screwdriver or a T27 Torx, remove the two screws holding the head end litter access cover and remove the cover.
3. Disconnect all cables at the litter CPU board. Note the locations of the cables so they will be connected properly to the replacement litter CPU.
4. To remove the board from the litter standoffs, pull out on the retention clips and lift upward on the board.
5. Install the new board and reconnect all cables.
6. Reinstall the litter access panel and plug the bed power cord into a properly grounded wall receptacle.
7. When a new CPU board is installed, a “burn–in” procedure must be done (see below). If your bed is equipped with a scale system, scale calibration must also be done (see page 87).
8. Test bed operations before returning the bed to service.

MAIN CPU BOARD "BURN–IN" PROCEDURE

When the main CPU board has been changed, the lift potentiometers must be programmed into the CPU.

Lift Potentiometer Programming

1. Unplug the power cord from the wall receptacle.
2. At the foot board push and hold down the Siderail Lights button, Fowler Lock Out button, and Bed Up/ Down button.
3. While still holding down on the above three buttons, plug the power cord into the wall receptacle. The siderail "light" LED will blink.
4. Release the buttons. Run the bed all the way down until it stops.
5. Push and hold down the Bed Motion Lock button until the light flashes.
6. Unplug the power cord from the wall socket.
7. Plug the power cord back in to the wall socket and run the bed up and down to verify the bed limits.

POWER CORD REPLACEMENT

Required Tools:

Heyco Pliers	#2 Phillips Screwdriver or T27 Torx	
Side Cutters	5/16” Nut Driver	1/4” Nut Driver

NOTE
Because of fastener changes, it will be necessary to use either a Phillips screwdriver or a T27 Torx to remove the bolts securing the litter access panel.

Procedure:

1. Unplug the power cord from the wall receptacle.
2. Using a #2 Phillips screwdriver or a T27 Torx, remove the four screws securing the head end litter access cover and remove the cover.
3. Using Heyco pliers, remove the two power cord strain relief connectors.
4. Using side cutters, cut all cable ties harnessing the power cord to other cables.
5. Unplug the power cord from the power board.

NOTE
Note the plug location for proper installation of the new power cord.

6. Using a 5/16” nut driver, remove the screw holding the power cord ground cable to the base.

NOTE
Note the arrangement of the star washers so the new ground wire will be installed properly.

7. Reverse the above steps to install the new power cord.

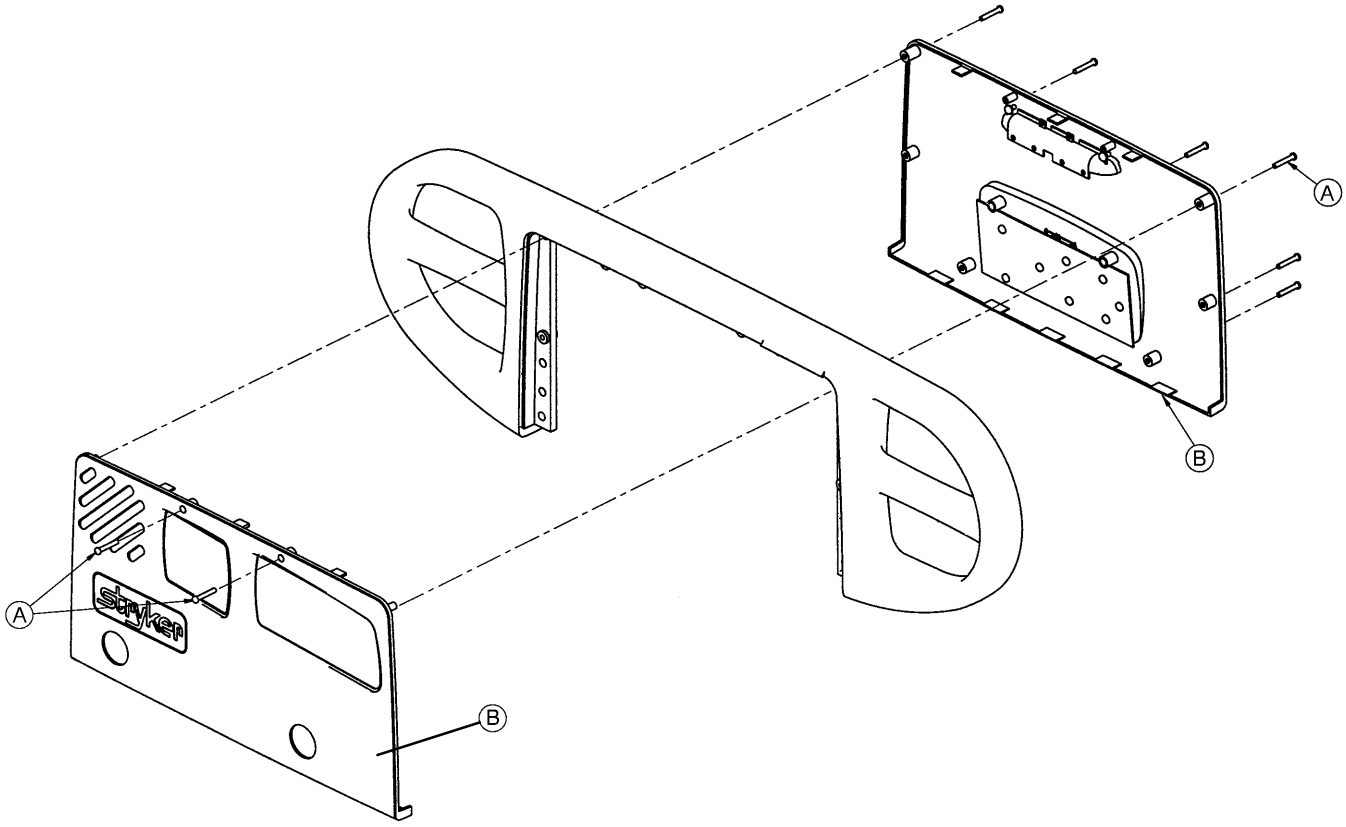
LITTER GREASE POINTS

1. All litter pivot joint bushings – “Syntech” synthetic grease
2. All Gatch and Fowler pivot link bushings – “Syntech” synthetic grease
3. Gatch drive screw and Gatch pan slide surface – “Syntech” synthetic grease
4. Fowler drive screw – “Mobil 28” grease

HEAD AND FOOT SIDERAIL COVER REMOVAL

Required Tools:

#2 Phillips Screwdriver



Removal Procedure:

1. Unplug the 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 outside cover to the head end siderail. Be careful not to pull on them when removing the cover.

3. Remove the cables from the siderail. Make note of the proper location for the cables.
4. Reverse the above steps to reattach the cover.

CAUTION

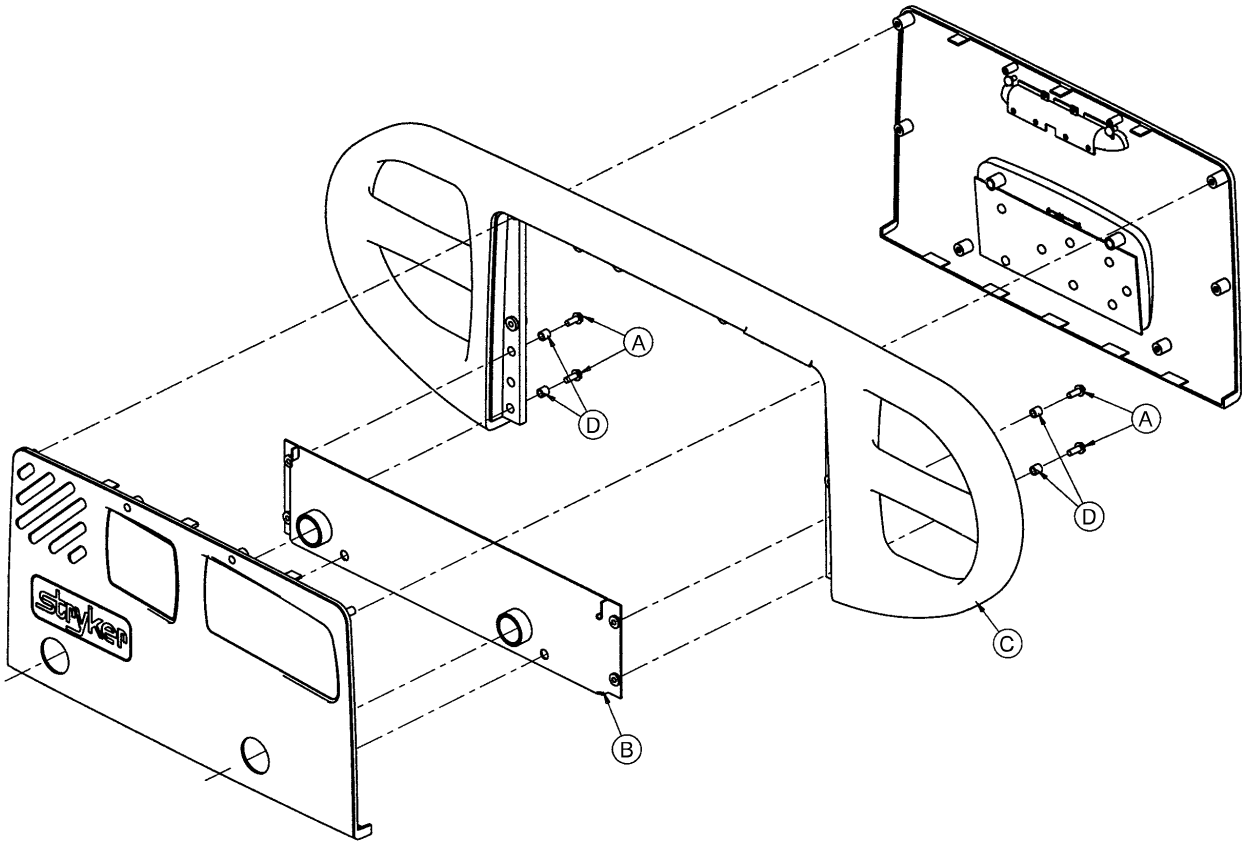
Do not snag the cables when installing the siderail cover.

NOTE
Follow the same procedure for siderail cover removal for the foot end rails.

HEAD AND FOOT MOLDED SIDERAIL REPLACEMENT

Required Tools:

#2 Phillips Screwdriver 5/16” Nut Driver



Procedure:

1. Unplug the bed power cord from the wall socket.
2. Remove the siderail cover (see page 93).
3. Using a 5/16” 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.

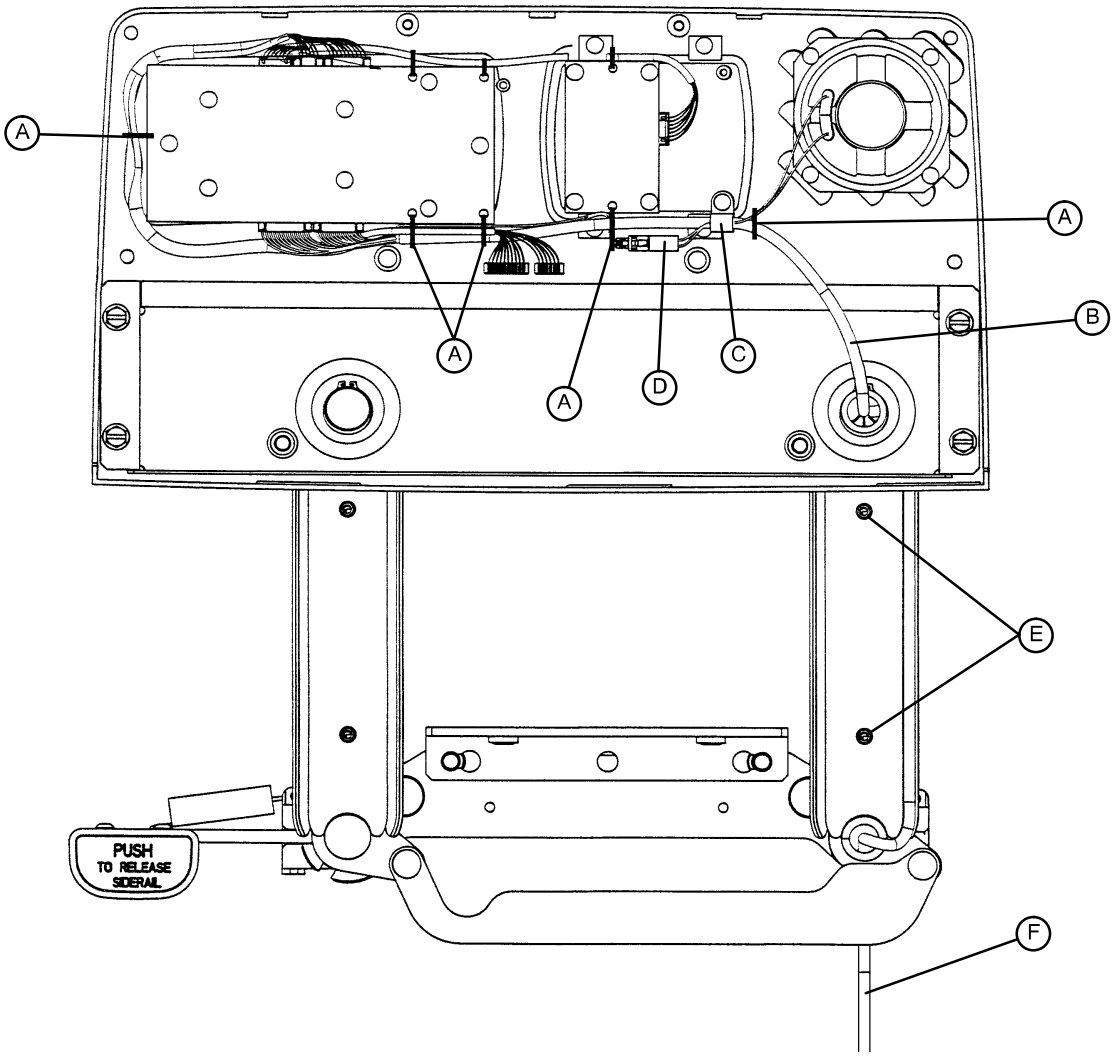
HEAD END SIDERAIL CABLE REPLACEMENT

Required Tools:

#2 Phillips Screwdriver or T27 Torx Side Cutters

NOTE

Because of fastener changes, it will be necessary to use either a Phillips screwdriver or a T27 Torx to remove the bolts securing the litter access cover.



Procedure:

1. Run the head section fully up.
2. Unplug the bed power cord from the wall socket.
3. Using a #2 Phillips screwdriver or a T27 Torx, remove the four screws securing the head end litter access cover to the litter and remove the cover.
4. Using a #2 Phillips screwdriver, remove the eight screws holding the siderail cover and remove the cover.
5. Put the siderail in the down position.

HEAD END SIDERAIL CABLE REPLACEMENT (CONTINUED)

6. Using a Phillips screwdriver, remove the two screws (E) holding the rear siderail pivot arm cover to the pivot arm. Remove the cover to expose the siderail cables.
7. Using side cutters, clip the cable ties (A) holding the cables together.
8. Using a #2 Phillips screwdriver, remove the cable clamp (C) from the siderail.
9. 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 in the siderail as shown.

10. Pull the cables through the siderail (toward the center of the bed).
11. Unplug the cable assembly (F) underneath the head section.
12. 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 95, before reattaching the pivot arm cover. If not done properly, the cover will not fit tightly and damage could occur to the cables.

SIDERAIL ASSEMBLY REMOVAL

Required Tools:

#2 Phillips Screwdriver T27 Torx

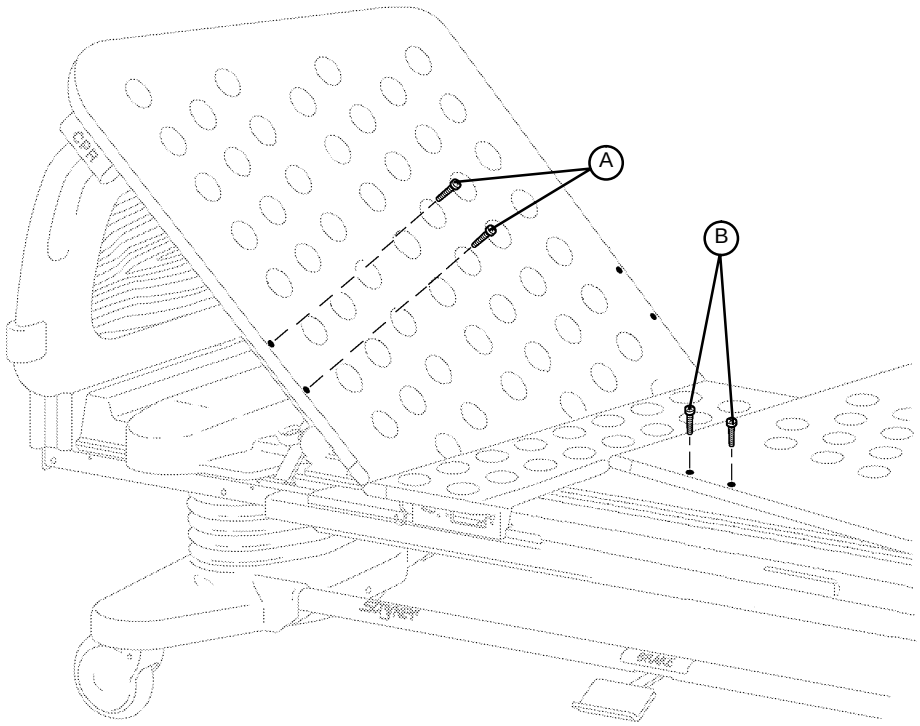
NOTE
Because of fastener changes, it will be necessary to use either a Phillips screwdriver or a T27 Torx to remove the bolts securing the litter access cover.

Removal Procedure:

1. Run the head section up electrically when removing a head end siderail.
2. Unplug the bed power cord from the wall socket.
3. Lower the siderail being removed.

NOTE
If removing a head end siderail, the cable must be unplugged from the CPU board under the head end litter access cover.

4. Using a #2 Phillips screwdriver or a T27 Torx, remove the four screws holding the head end litter access cover to the litter and remove the cover.



5. Using a T27 Torx, remove the two screws (A) or (B) holding the siderail assembly on the head or foot section.
6. Push in on the siderail assembly to clear under the head or foot section and pull the siderail back to remove it from the bed.
7. Reverse the above steps to reinstall the siderail assembly.

NOTE
Grease the glide rods on the replacement siderail assembly with Syntech grease.

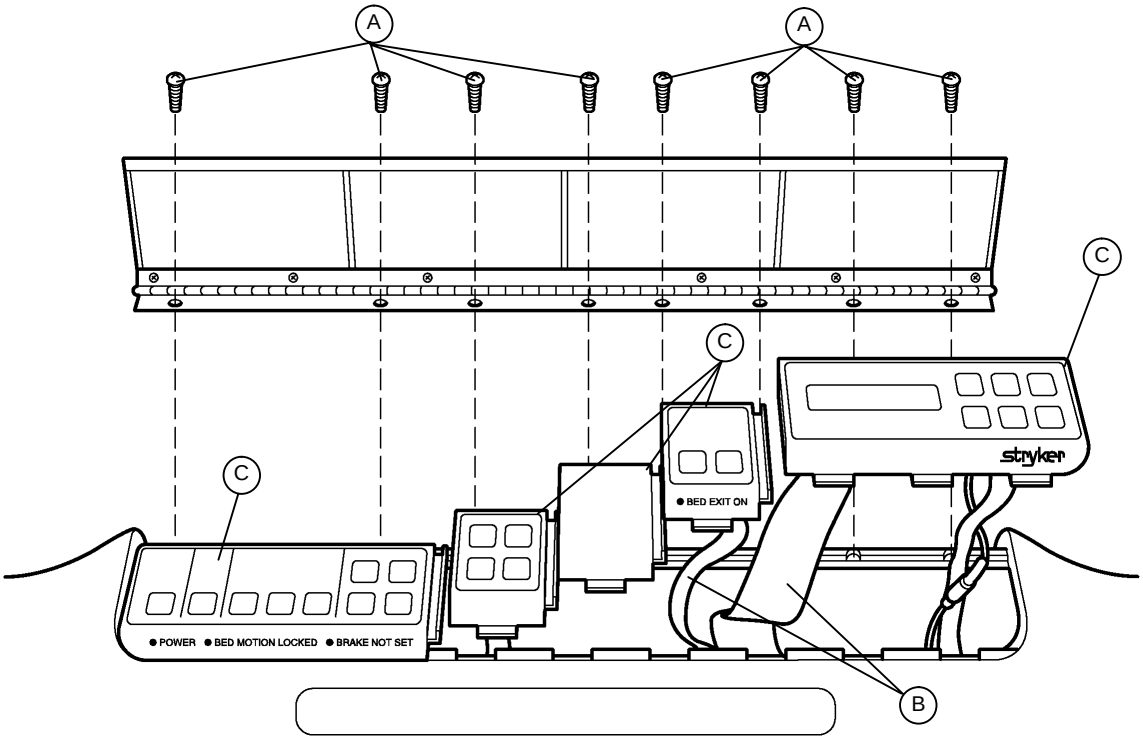
FOOT BOARD HINGE REMOVAL

Required Tools:

#2 Phillips Screwdriver

Procedure:

1. Using a #2 Phillips screwdriver, remove the screws (A) 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.



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 above).

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 (B) from the module (C).
3. Reverse the above steps to install the new module.

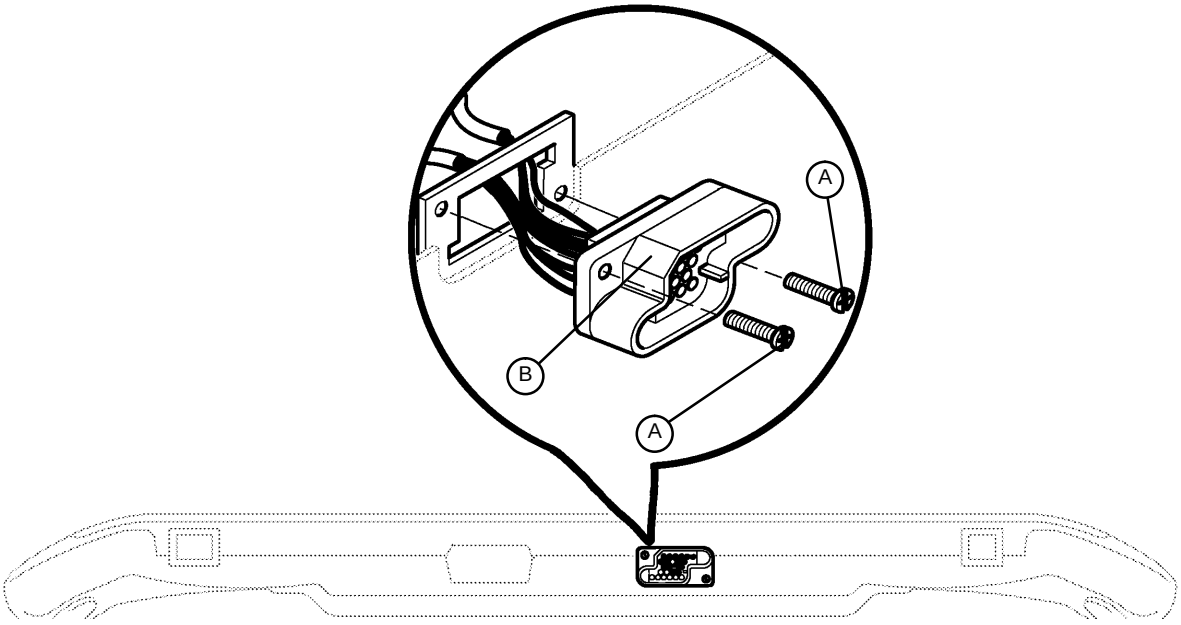
CAUTION

The modules must be overlapped as shown in the illustration 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:

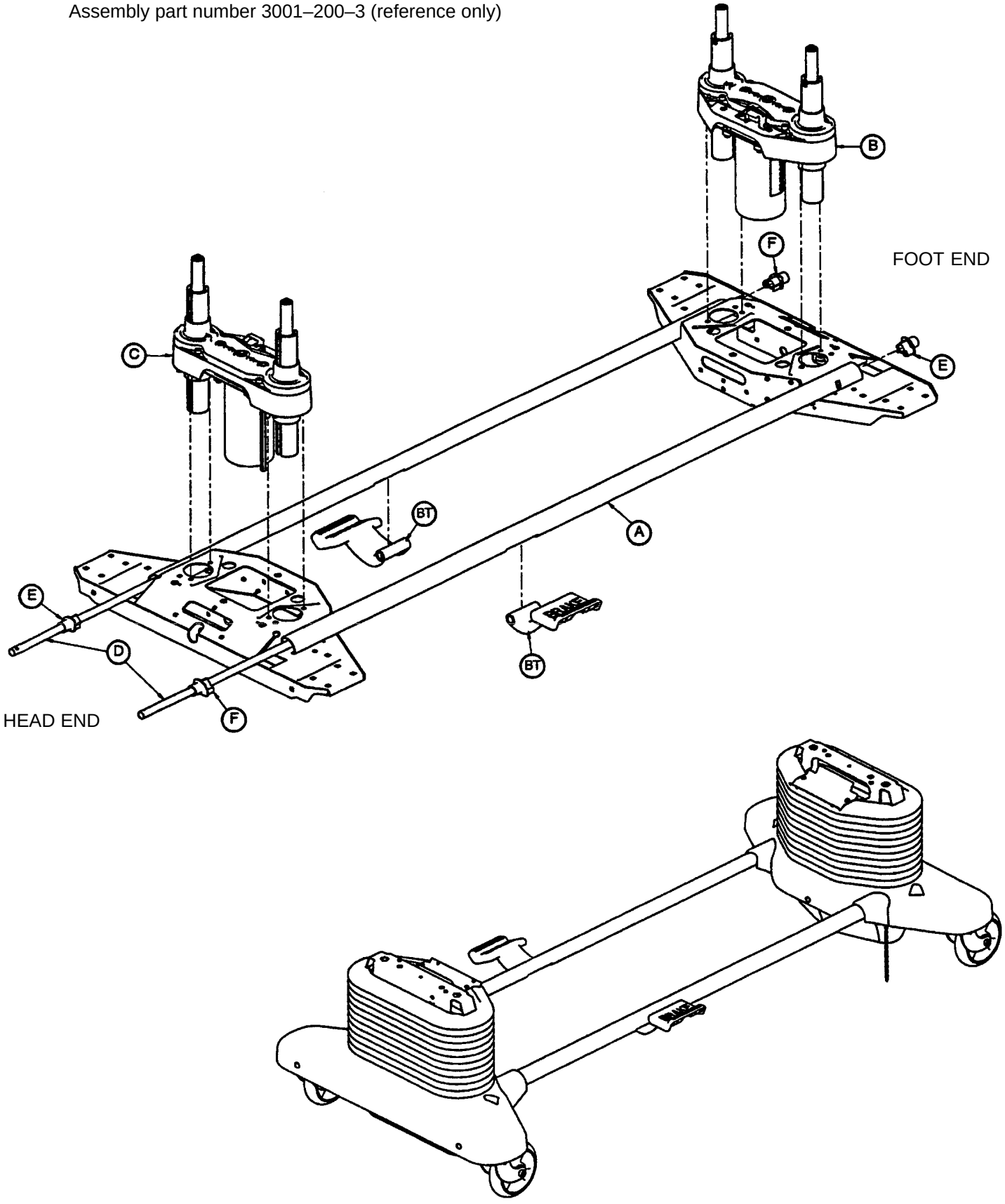
1. Unplug the bed power cord from the wall socket.
2. Remove the foot board from the bed to access the bottom of the board.
3. Properly ground yourself (see page 29 for static discharge precautions).
4. Using a #2 Phillips screwdriver, remove the eight screws holding the foot board door to the foot board and remove the door.
5. Using a #2 Phillips screwdriver, remove the two screws (A) holding the plug to the foot board.
6. Disconnect the 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 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.

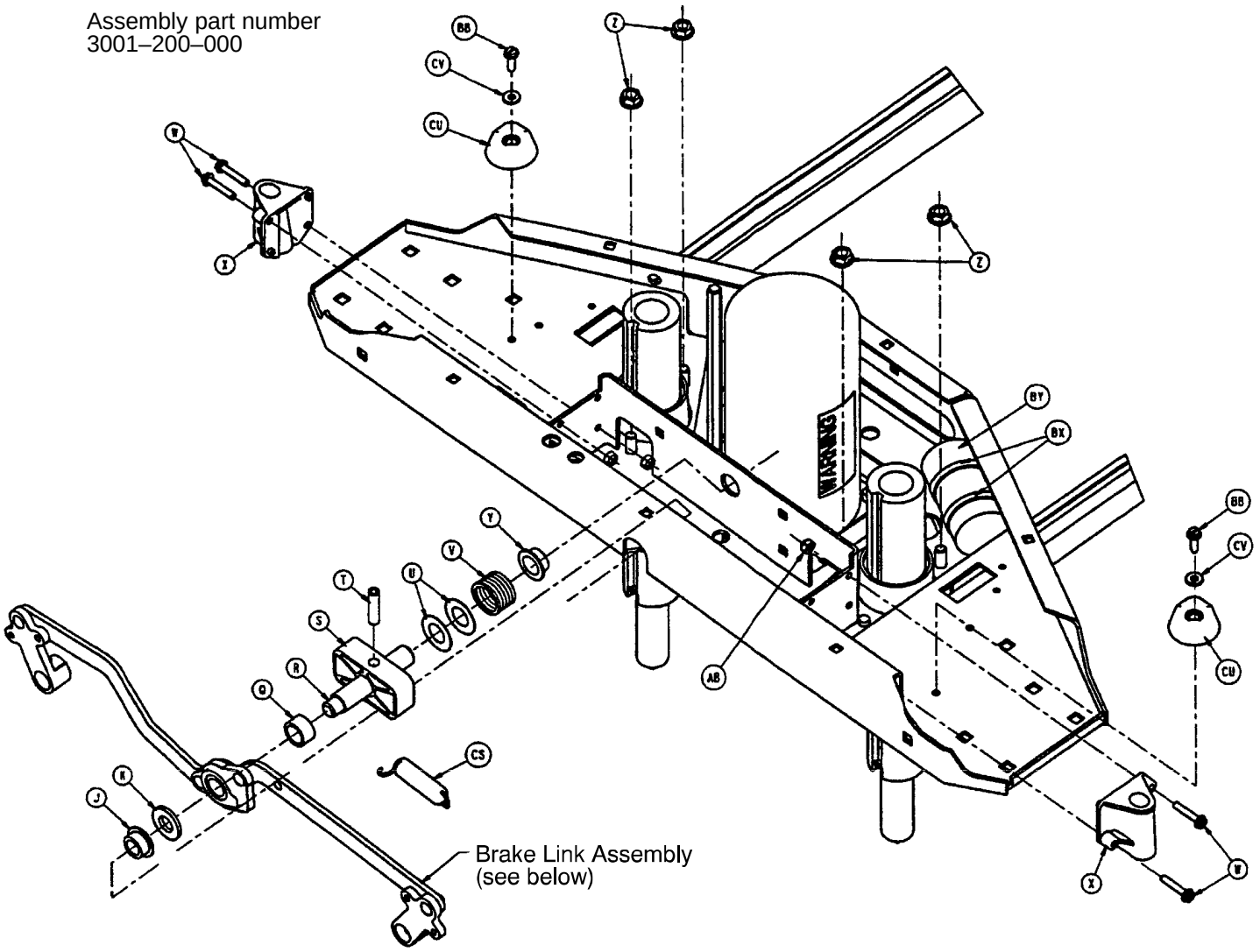
Base Assembly

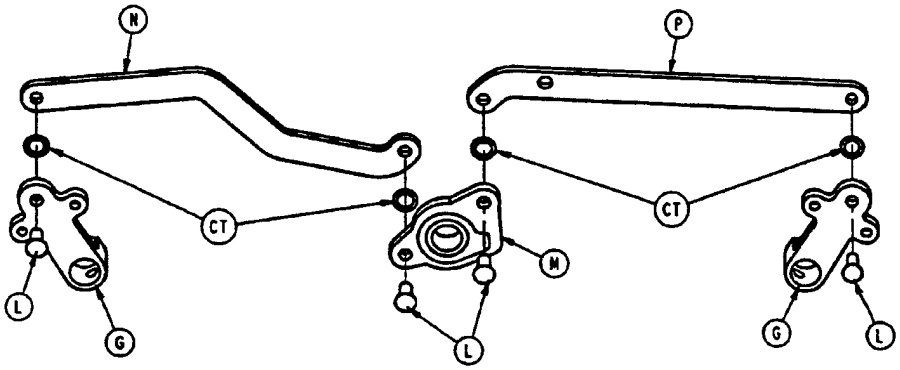
Assembly part number 3001–200–3 (reference only)



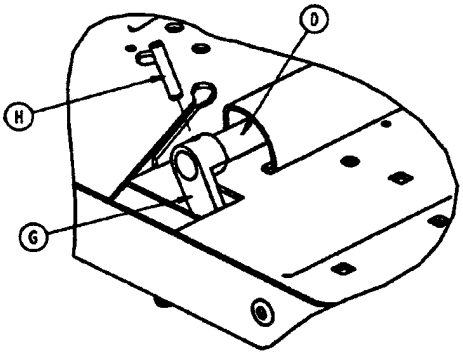
Base Assembly

Assembly part number
3001–200–000





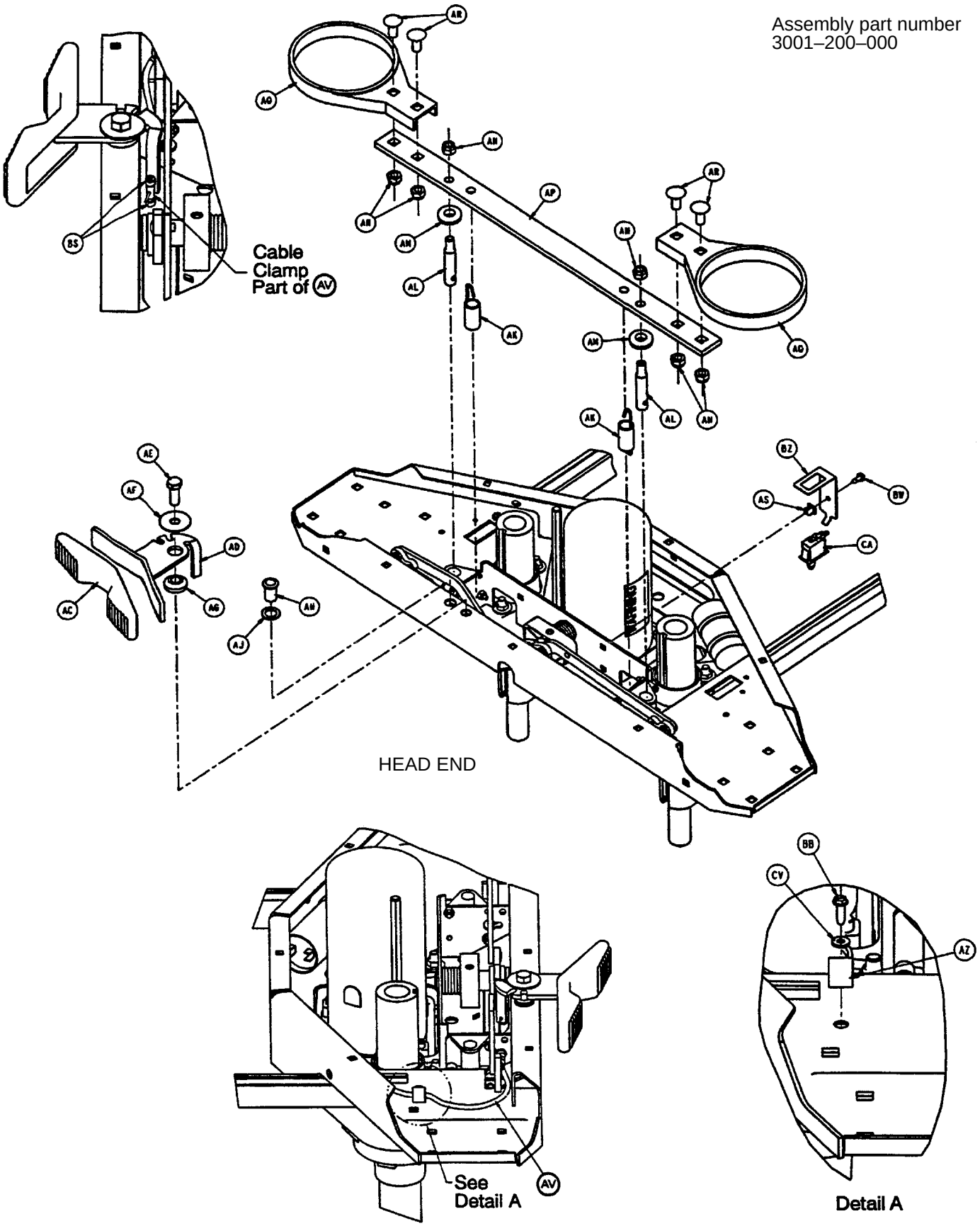
Brake Link Assembly
(Typical Both Ends)



Installation of Roll Pin
into Brake Shaft Crank
(Typical Four Places)

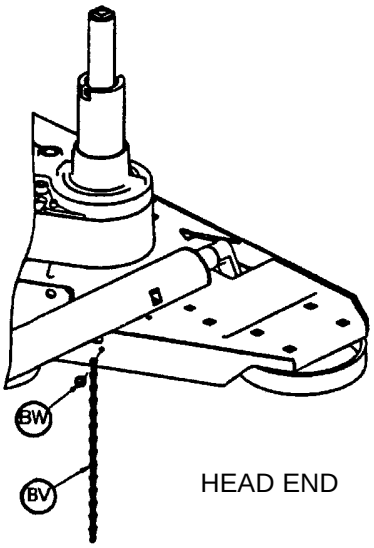
Base Assembly

Assembly part number
3001–200–000

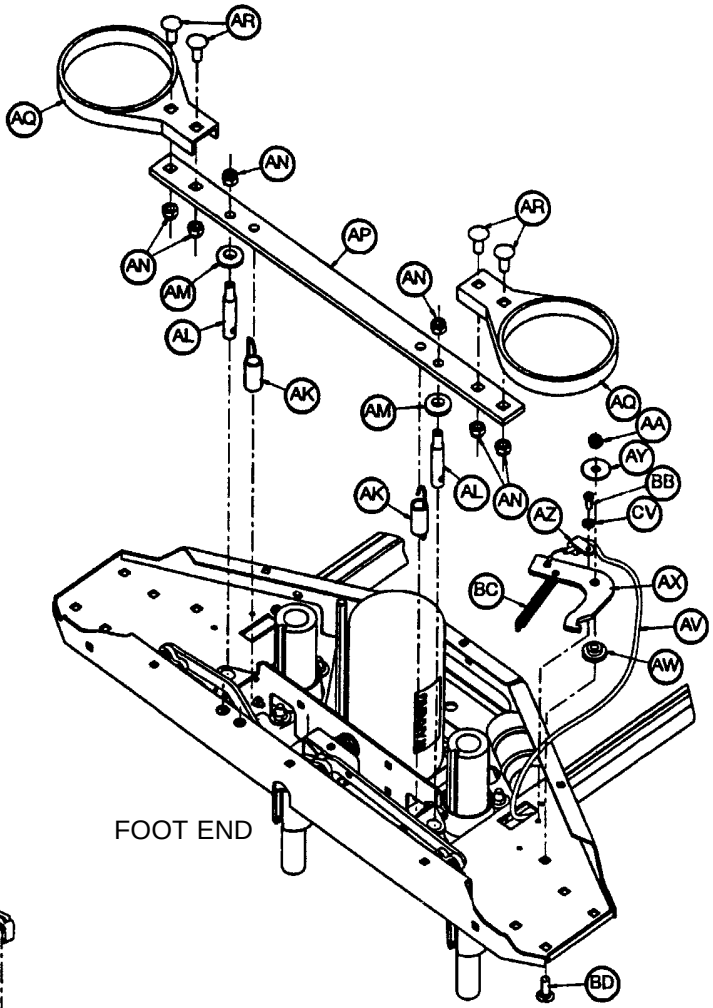


Base Assembly

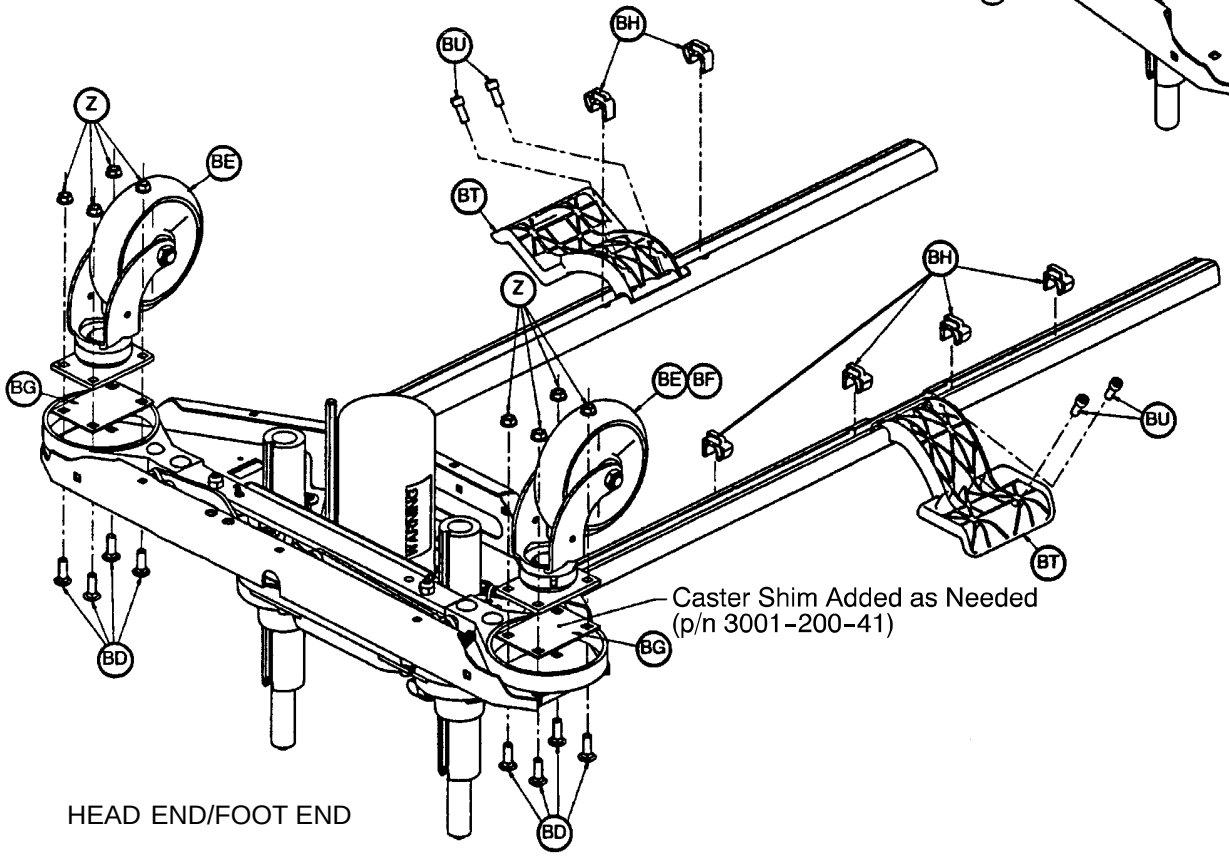
Assembly part number
3001–200–000



HEAD END



FOOT END

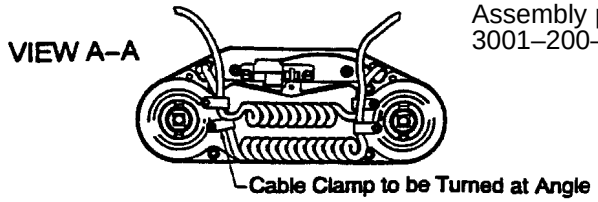


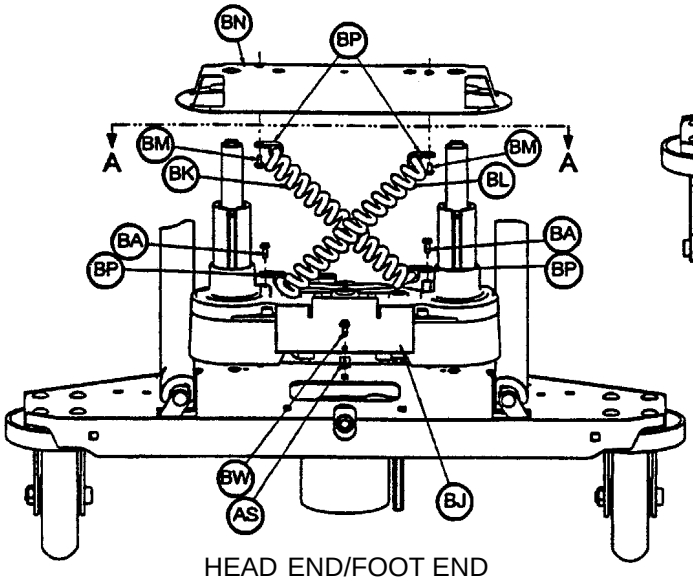
Caster Shim Added as Needed
(p/n 3001-200-41)

HEAD END/FOOT END

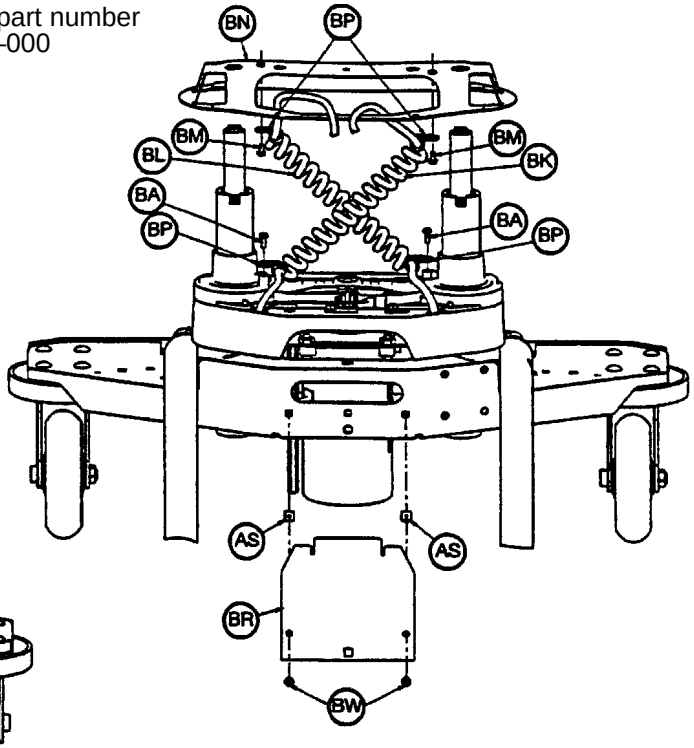
Base Assembly

Assembly part number
3001–200–000

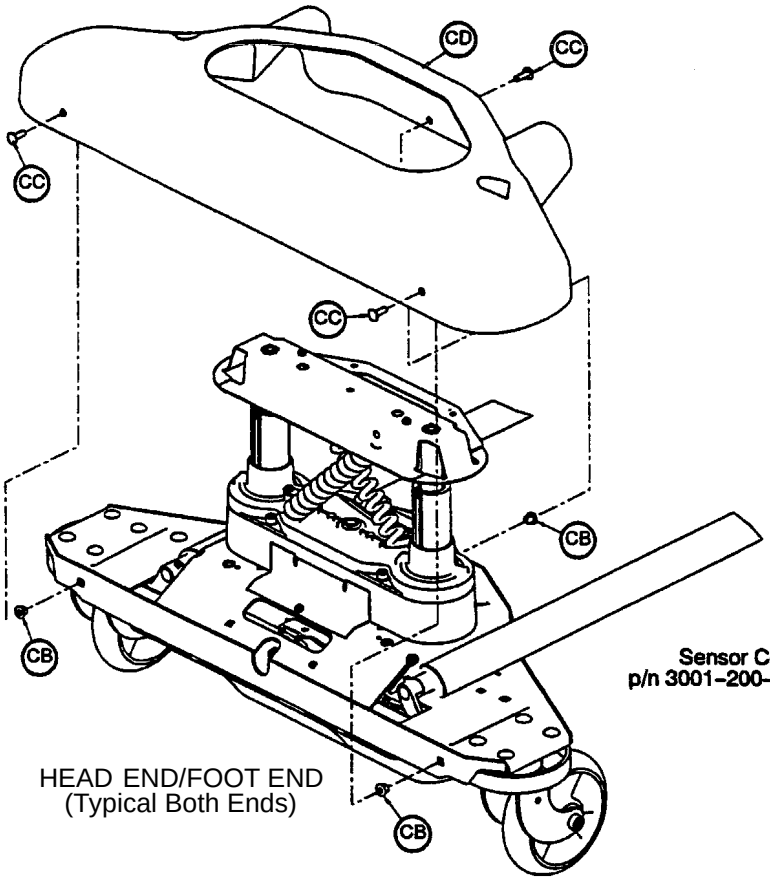




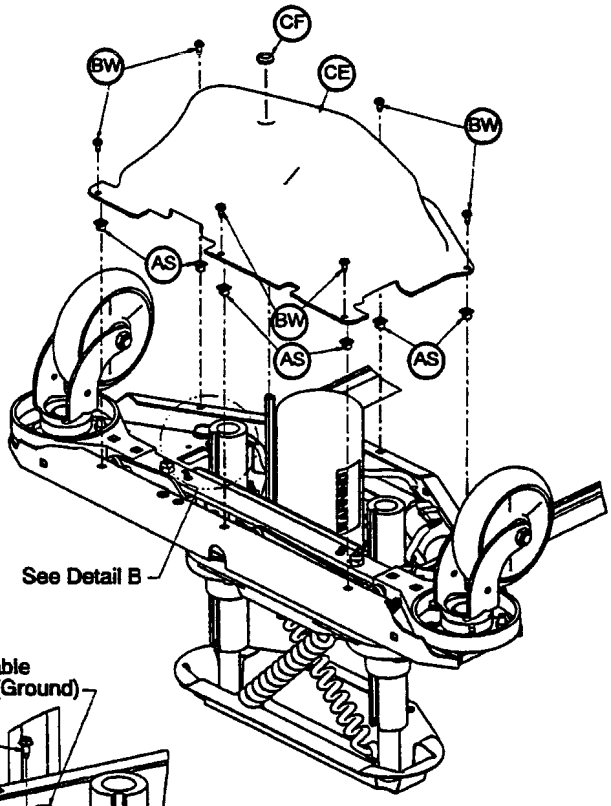
HEAD END/FOOT END
(Typical Both Ends)

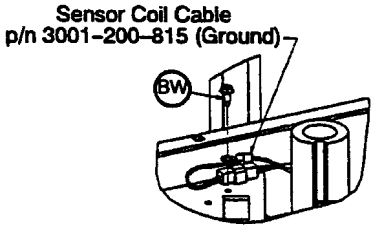


HEAD END/FOOT END
(Typical Both Ends)



HEAD END/FOOT END
(Typical Both Ends)

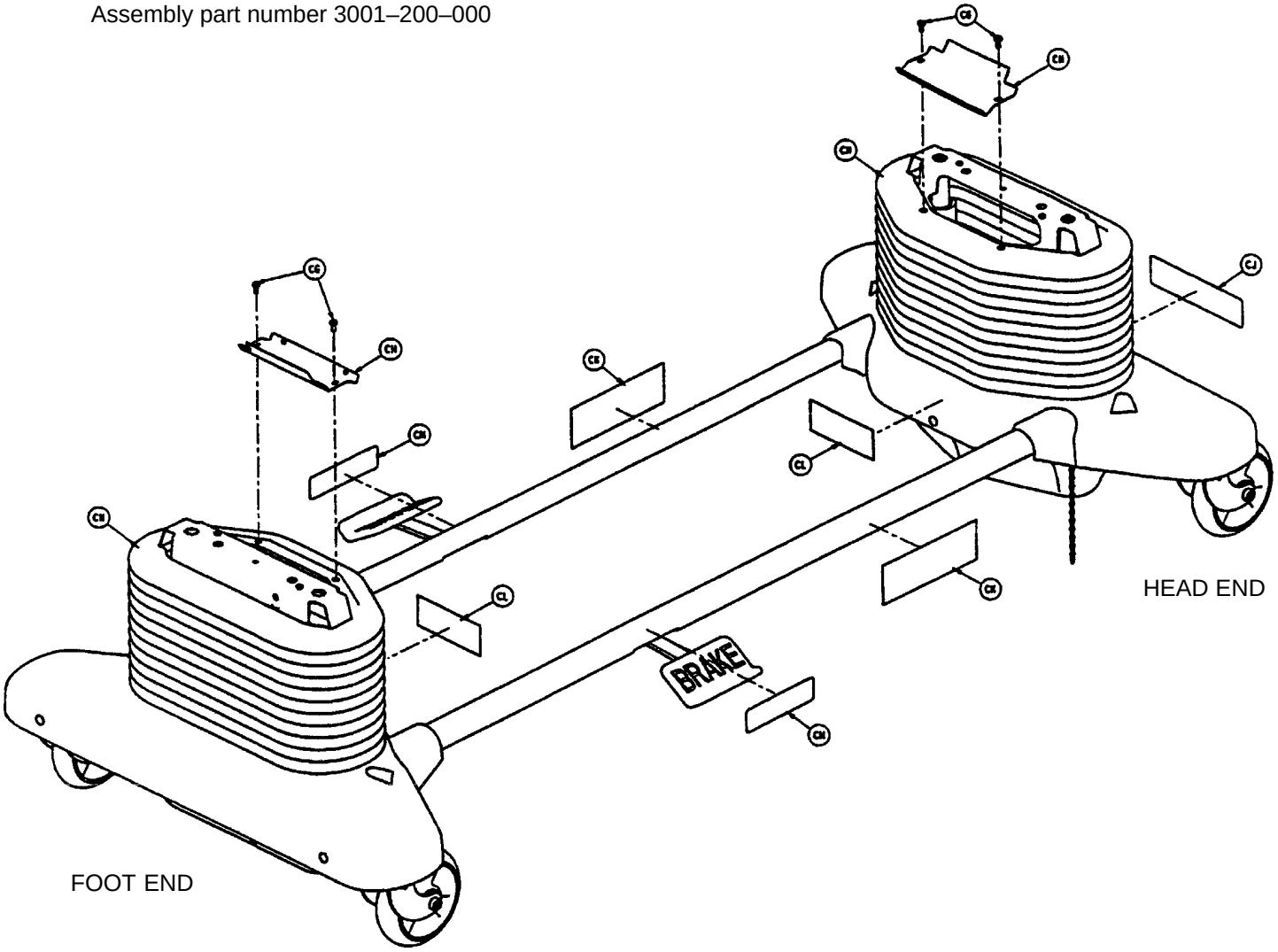




HEAD END/FOOT END
(Typical Both Ends)

Base Assembly

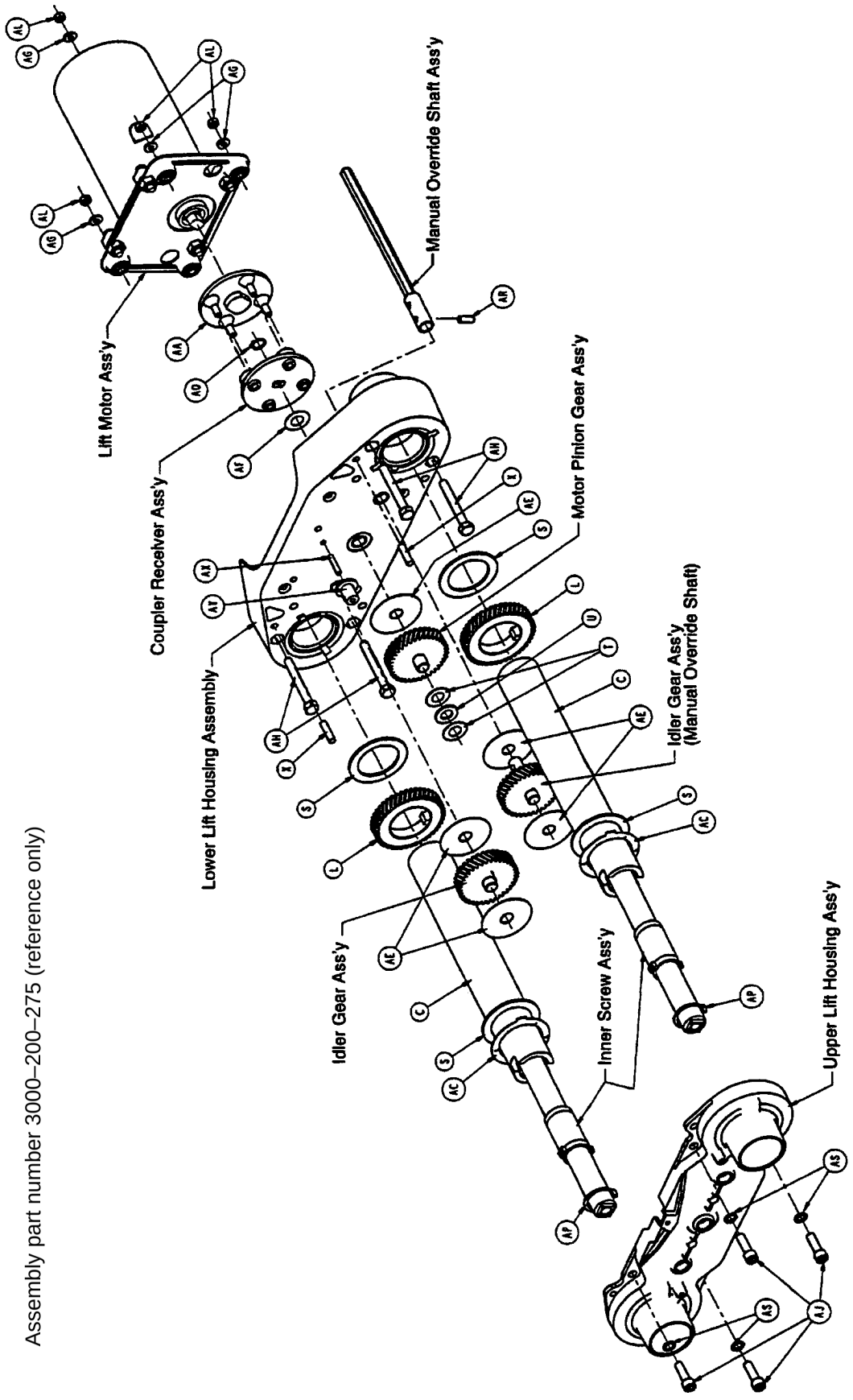
Assembly part number 3001–200–000



Base Assembly

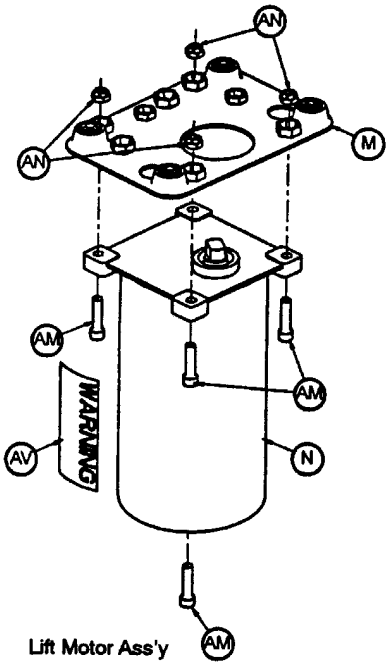
Item	Part No.	Part Name	Qty.
A	3001–200–100	Base Weldment	1
B	(page 110)	Lift Ass'y, Head End	1
C	(page 110)	Lift Ass'y, Foot End	1
D	3000–200–314	Brake Shaft	2
E	3000–200–305	Brake Shaft Bushing, Rt.	2
F	3000–200–331	Brake Shaft Bushing, Lt.	2
G	3000–200–302	Brake Shaft Crank	4
H	26–14	Roll Pin	4
J	3001–200–316	Brake Cam Shaft Bushing	2
K	11–333	Flat Washer	2
L	25–146	RIvet	8
M	3000–200–301	Brake Crank Ass'y	2
N	3001–200–312	Dog Leg Brake Link	2
P	3001–200–311	Brake Link	2
Q	3001–200–315	Brake Spacer	2
R	3001–200–310	Brake Cam Shaft	2
S	3000–200–304	Brake Cam	2
T	3000–200–313	Slotted Roll Pin	2
U	3000–200–311	Cam Shaft Thrust Washer	4
V	3000–200–312	Cam Shaft Comp. Spring	2
W	3–122	Hex Washer Hd. Screw	8
X	3000–200–328	Brake Guide Bushing	4
Y	3001–200–320	Brake Cam Shaft Bushing	2
Z	16–98	Hex Flange Nut	25
AA	16–11	Flexlock Nut	1
AB	16–2	Nylock Nut	8
AC	3000–200–336	Steer Pedal	1
AD	3000–200–335	Steer Pedal Arm	1
AE	3–120	Hex Hd. Screw	1
AF	3000–200–348	Wide Washer	1
AG	3000–200–341	Steer Pedal Bushing	1
AH	3000–200–337	Ball Plunger	1
AJ	3000–200–349	Narrow Washer	1
AK	3000–200–352	Brake Bar Return Spring	4
AL	3000–200–318	Guide Pin	4
AM	3000–200–324	Brake Bar Bumper	4
AN	16–35	Nylock Nut	12
AP	3000–200–323	Brake Bar	2
AQ	3000–300–321	Brake Ring	4
AR	5–18	Carriage Bolt	8
AS	3000–300–2	Plastic Clip Nut	19
AV	3000–200–342	Steer Cable Ass'y	1
AW	3000–200–339	Steer Lock Lever Bushing	1
AX	3000–200–340	Steer Lock Lever	1
AY	3000–200–347	Special Washer	1
AZ	34–254	Cable Clamp	2
BA	3–128	Hex Washer Hd. Screw	4
BB	23–101	Hex Washer Hd. Screw	6
BC	3000–200–346	Steer Lock Spring	1
BD	5–20	Carriage Bolt	17
BE	3000–200–20	6" Caster	3
	3000–200–36	8" Caster (Option)	3
BF	3000–200–16	6" Steer Caster	1
	3000–200–37	8" Steer Caster	1
BG	3000–200–41	Caster Shim	4
BH	3001–200–306	Brake Shaft Pedal Brg.	6
BJ	3001–200–34	Front Access Cover	2
BK	3001–200–815	Sensor Coil Cable	2
BL	3001–200–804	Power Coil Cable	2
BM	3–123	Hex Washer Hd. Screw	4
BN	3000–200–52	Bellows Bracket	2
BP	34–22	Cord Clamp	8
BR	3000–200–35	Back Access Cover	2
BS	4–298	Soc. Hd. Cap Screw	2
BT	3001–200–325	Brake Pedal	2
BU	4–270	Soc. Hd. Cap Screw	4
BV	715–1–156	Ground Chain	1
BW	23–25	Hex Washer Hd. Screw	22
BX	38–151	Cable Tie	4
BY	3000–200–243	Lift Motor Capacitor	2
BZ	3000–200–343	Brake Switch Bracket	1
CA	3000–300–58	Plunger Switch	1
CB	18–36	Plastic Clip Nut	6
CC	23–92	Truss Hd. Phillips Screw	6
CD	3000–200–9	Uni–Pan Cover	2
CE	3000–200–1	Bottom Cover	2
CF	3000–000–39	Grommet	2
CG	3–224	Hex Washer Hd. Screw	4
CH	3001–200–8	Bellows Bracket	2
CJ	3000–200–603	Steer Pedal Label	1
CK	3000–200–602	Stryker Logo Label	2
CL	988–2–708	Caution Label	2
CM	3000–200–601	Brake Pedal Label	2
CN	3000–200–11	Bellows	2
CQ	3000–300–114	8" Cable Tie	10
CS	3001–200–334	Brake Pedal Ext. Spring	2
CT	14–4	Nylon Washer	8
CU	59–746	Mounting Feet	4
CV	11–302	Flat Washer	6

Lift Assembly (Common)

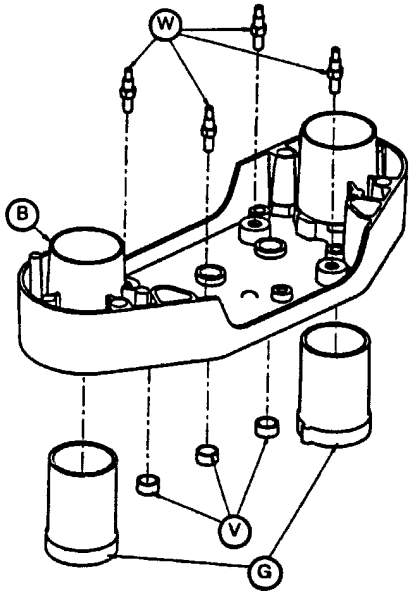


Assembly part number 3000–200–275 (reference only)

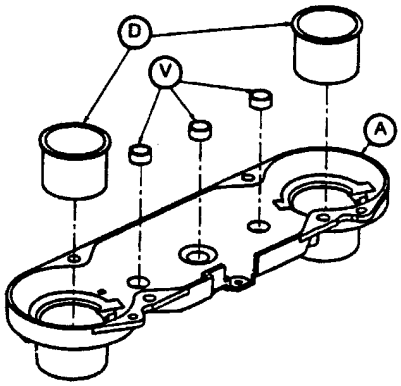
Lift Assembly (Common)



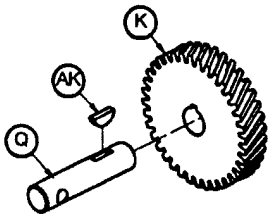
Lift Motor Ass'y



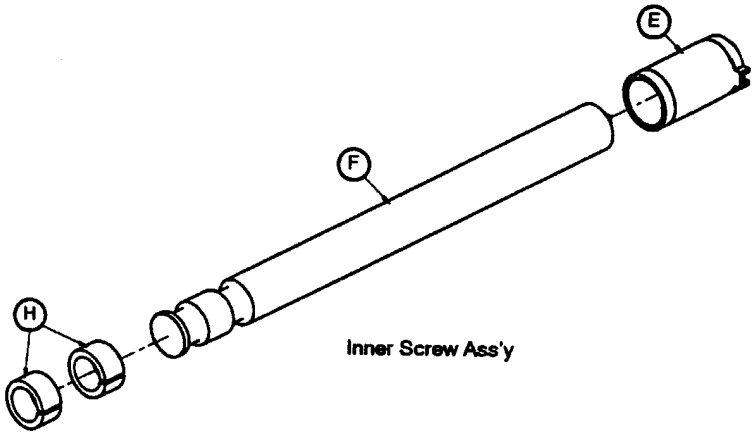
Lower Lift Housing Ass'y



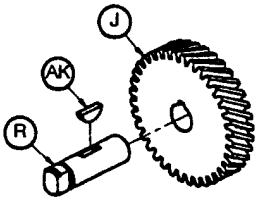
Upper Lift Housing Ass'y



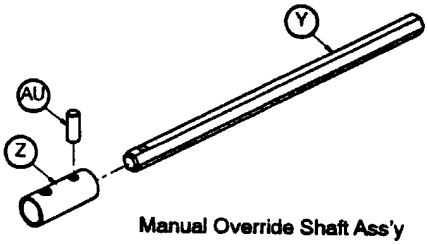
Idler Gear Ass'y
(Manual Override Shaft)



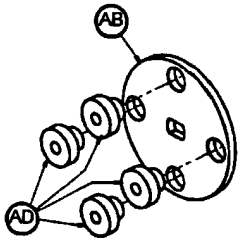
Inner Screw Ass'y



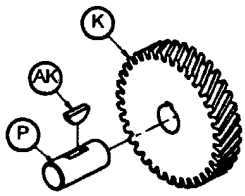
Motor Pinion Gear Ass'y



Manual Override Shaft Ass'y



Coupler Receiver Ass'y



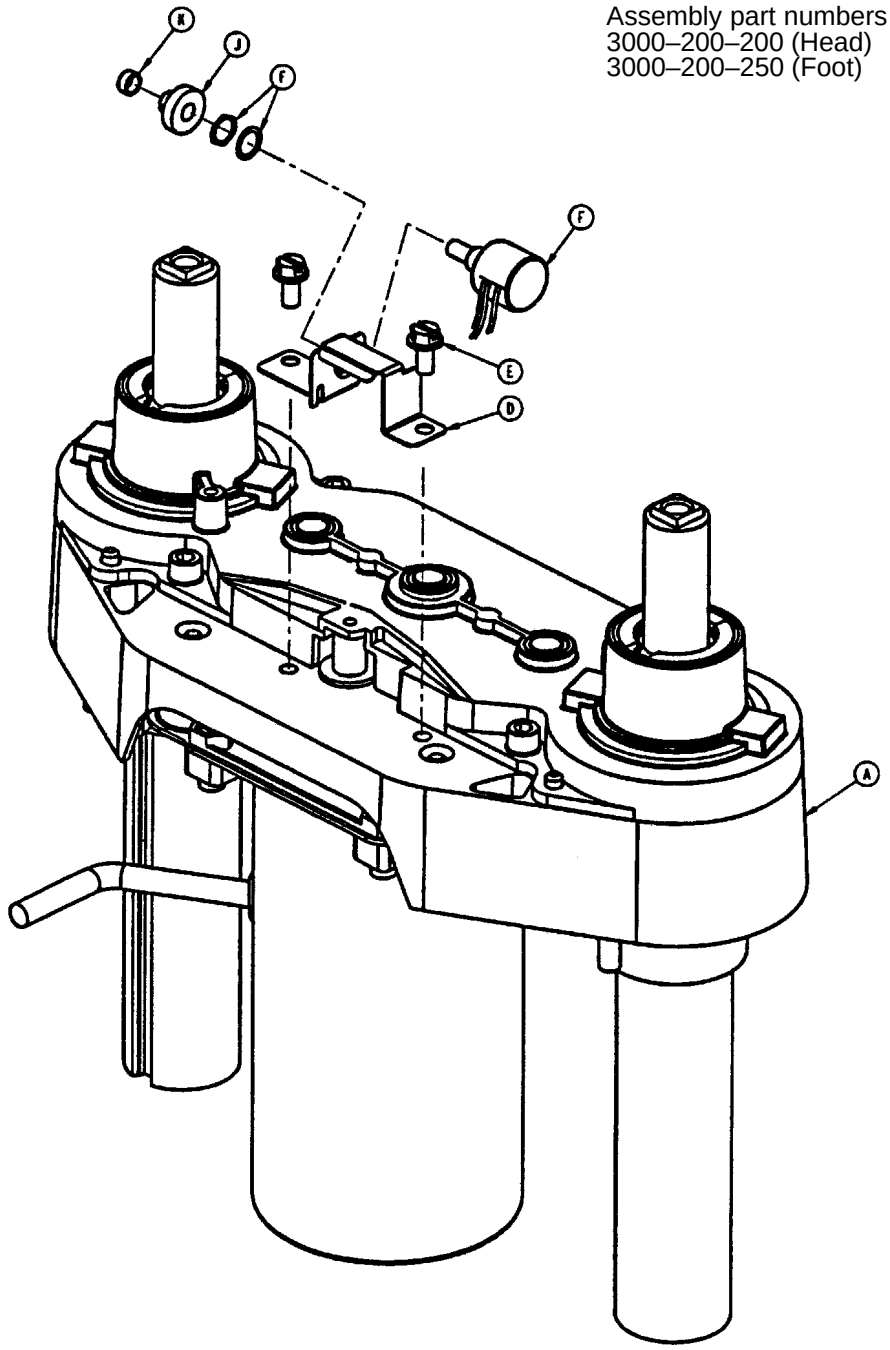
Idler Gear Ass'y

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	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 111)	Motor Isolation Plate Ass'y	1
N	3000–200–213	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	3001–200–227	Iso. Mtg. Plate Standoff	4
X	26–231	Dowel Pin	2
Y	3001–200–235	Man. Override Driveshaft	1
Z	3000–200–236	Man. Override Coupler	1
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
AL	16–2	Nylock Nut	4
AM	4–28	Soc. Hd. Cap Screw	4
AN	16–16	Nylock Nut	4
AP	28–121	Retaining Ring	2
AQ	28–1	Retaining Ring	1
AR	26–178	Roll Pin	1
AS	11–308	Serrated Belleville Washer	4
AU	26–172	Roll Pin	1
AV	3000–300–604	Warning Label	1
AX	3000–200–239	Pot. Drive Gear Shaft	1
AY	3000–200–216	Potentiometer Drive Gear	1

Lift Assembly (Head & Foot End)

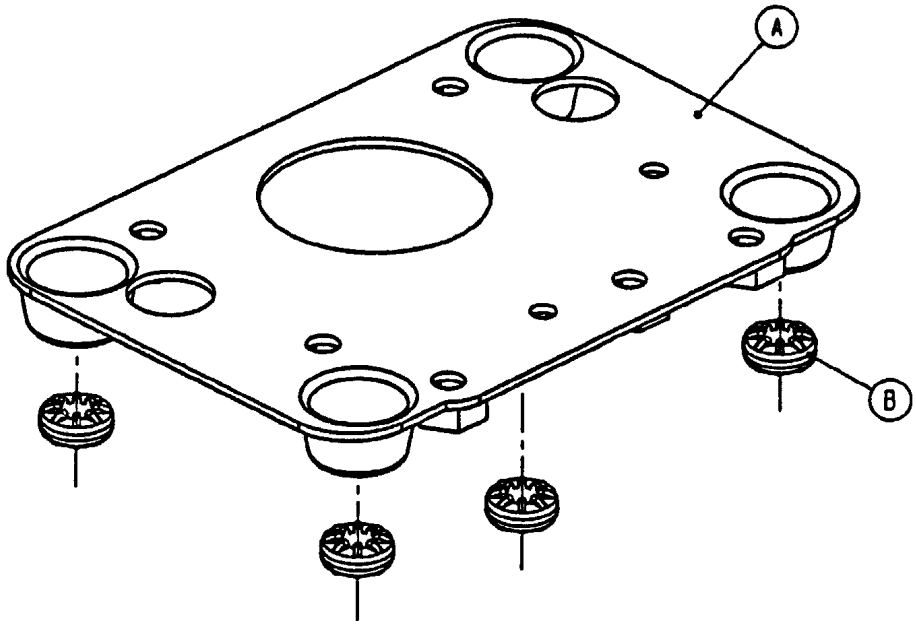
Assembly part numbers
3000–200–200 (Head)
3000–200–250 (Foot)



Item	Part No.	Part Name	Qty.
A	(page 107–109)	Common Lift Assembly	1
D	3000–200–217	Potentiometer Mtg. Brkt.	1
E	3–121	Hex Washer Hd. Screw	2
F	3000–200–807	Head Pot Cable	1
	3000–200–806	Foot Pot Cable	1
J	3000–200–215	Potentiometer Worm Gear	1
K	3000–200–253	Pot Worm Gear Retainer	1

Isolation Plate Assembly

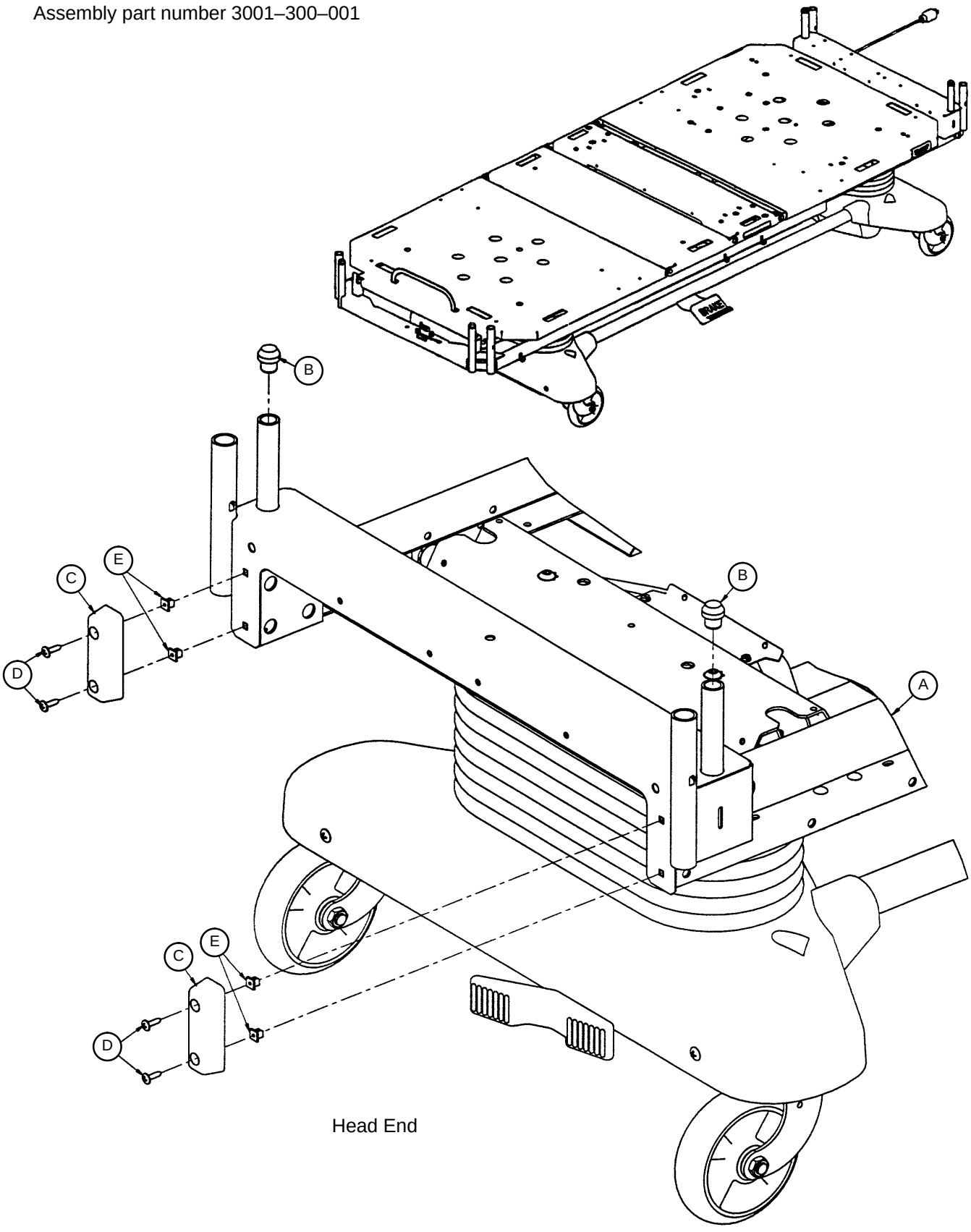
Assembly part number 3001–300–212



Item	Part No.	Part Name	Qty.
A	3000–200–212	Isolation Plate	1
B	3000–200–228	Motor Mtg. Plate Grommet	4

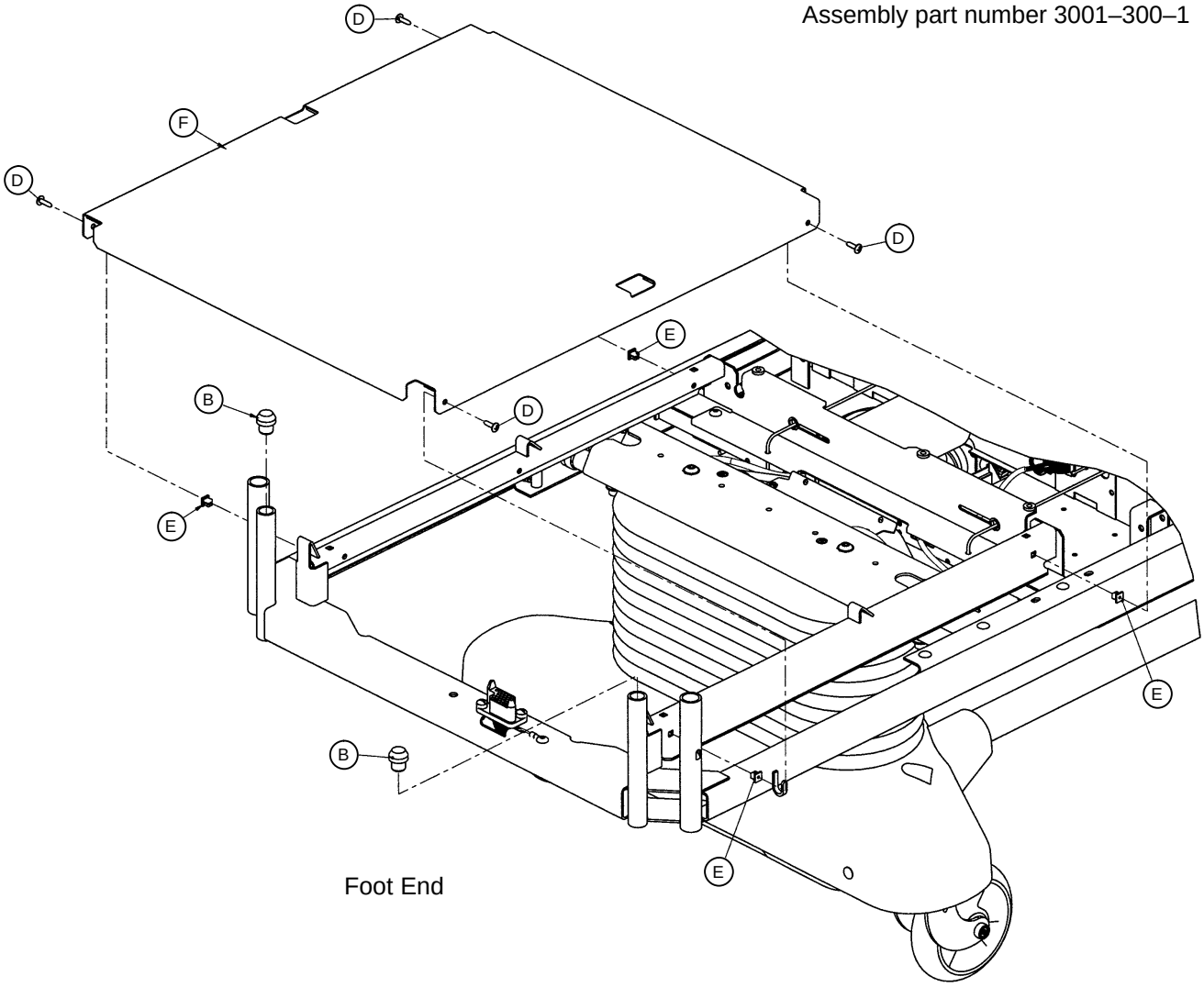
Litter Assembly

Assembly part number 3001–300–001

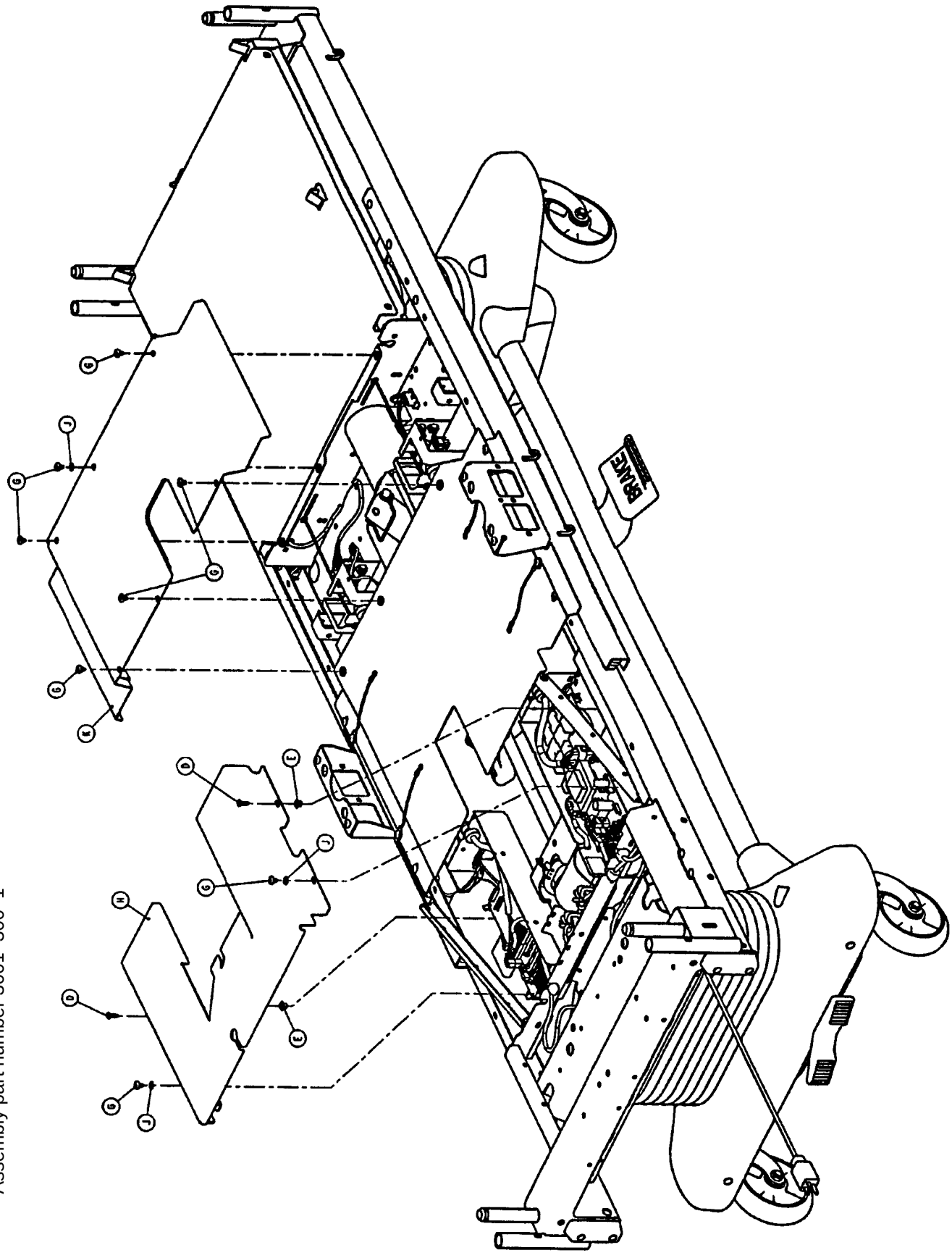


Litter Assembly

Assembly part number 3001–300–1

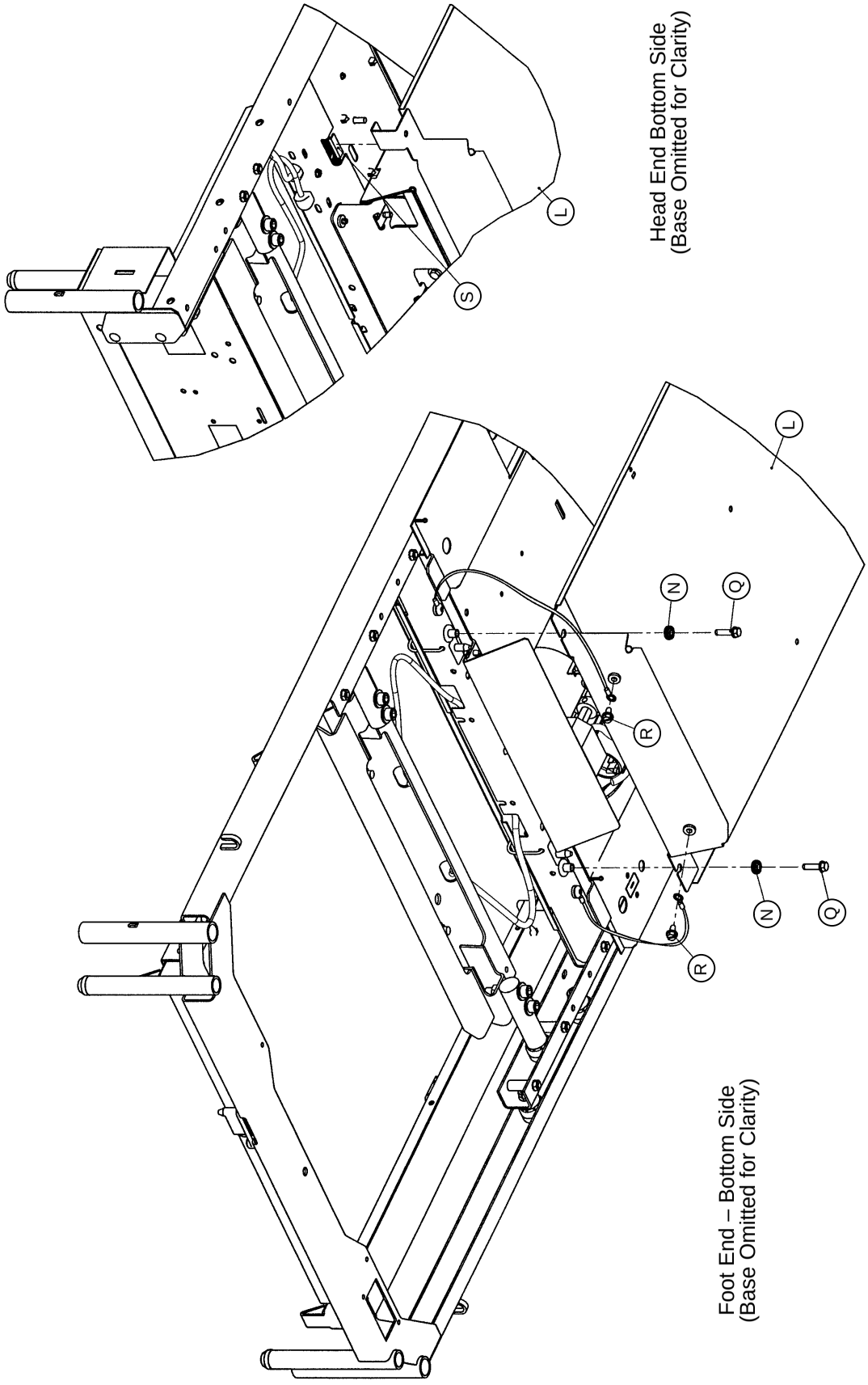


Litter Assembly



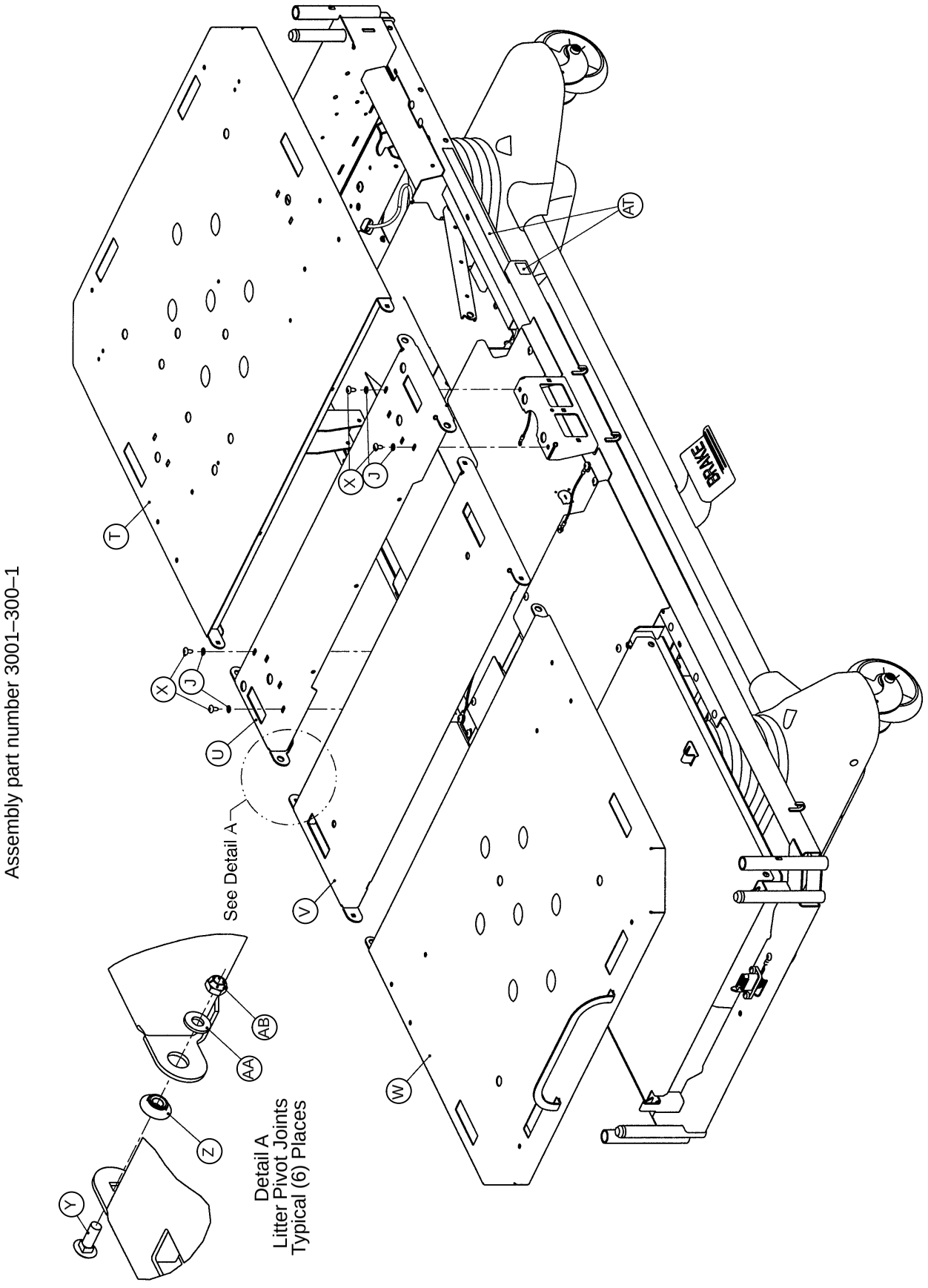
Assembly part number 3001–300–1

Litter Assembly



Assembly part number 3001–300–1

Litter Assembly

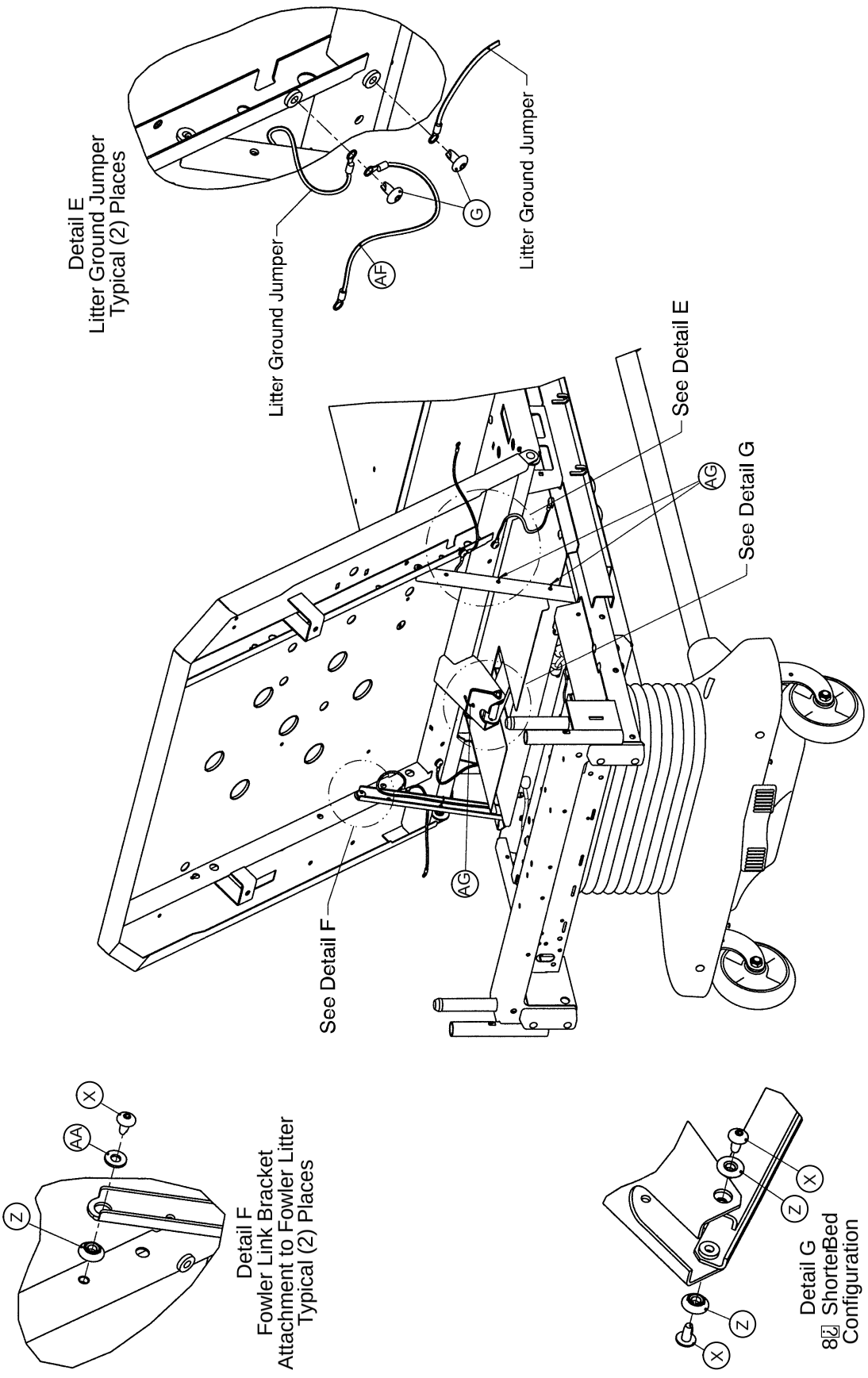


Detail D
Litter Ground Jumper
Between Thigh and Foot Litter
Typical (2) Places

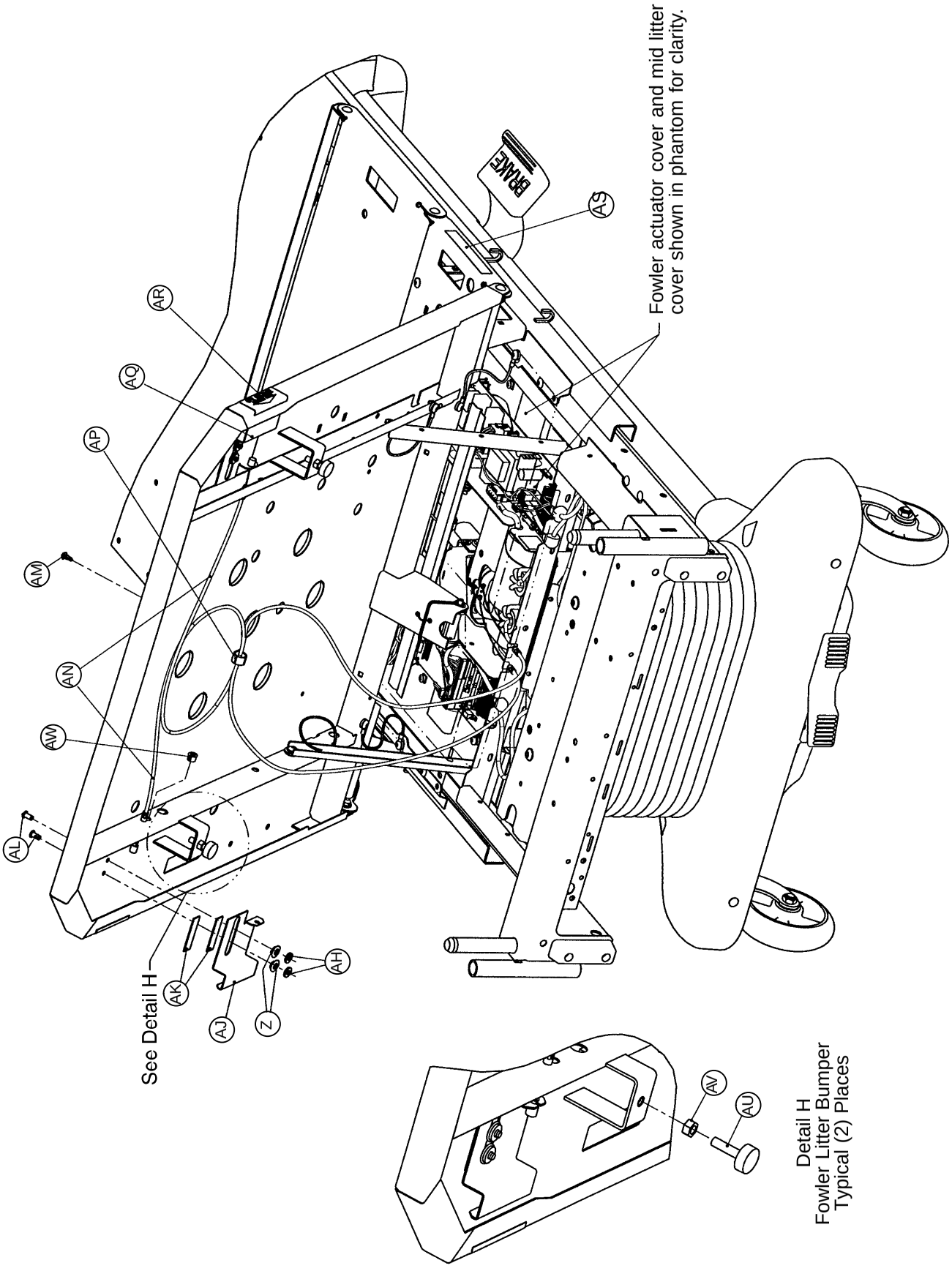
Detail C
Litter Ground Jumper
Frame to Thigh Litter
Typical (2) Places

Detail B
Foot Prop Installation
Typical (2) Places

Litter Assembly



Litter Assembly



Litter Assembly

3001–300–1 Litter Assembly – Common Components

Item	Part No.	Part Name	Qty.	Item	Part No.	Part Name	Qty.
A	(page 134–140)	Electrical Litter Ass'y	1	Z	3001–300–99	Fowler Bushing	12
B	3000–300–349	Cap	4	AA	11–303	Flat Washer	8
C	3000–300–350	Head End Bumper	2	AB	16–16	Fiber Lock Nut	6
D	23–80	Cap	10	AD	27–7	Cotter Pin	2
E	3000–300–2	Plastic Clip Nut	12	AE	52–754	Bushing	2
G	7–53	Truss Hd. Screw	18	AF	3001–300–870	Litter Ground Jumper	6
H	3001–300–90	Fowler Act. Cover As'y	1	AG	3000–300–113	Cable Tie	5
J	13–10	Ext. Tooth Lock Washer	7	AH	11–376	Washer	4
K	3001–300–40	Electrical Cover Ass'y	1	AJ	3001–300–662	CPR Handle, Left	1
L	3001–300–75	Motion Interrupt Ass'y	1	AK	3001–300–663	Velcro Strip	4
M	3001–300–79	Mot. Interrupt Mtg. Spacer	2	AL	25–120	Pop Rivet	4
N	3001–200–228	Mounting Standoff	2	AM	3000–300–477	CPR Conduit Stud	1
P	11–302	Flat Washer	2	AN	3001–300–670	CPR Cable Ass'y	2
Q	23–251	Hex Washer Hd. Screw	2	AP	59–743	Wire Harness Clip	1
R	3–221	Hex Washer Hd. Screw	2	AQ	3001–300–661	CPR Handle, Right	1
S	3001–300–14	Edge Grommet	2	AR	3001–300–603	CPR Release Label	2
U	3001–300–140	Litter Seat	1	AS	2020–88–820	Caution Label	2
V	3001–300–150	Thigh Litter Ass'y	1	AU	3000–300–3	Bumper	4
X	7–52	Truss Hd. Screw	6	AV	15–12	Hex Nut	4
Y	5–17	Carriage Bolt	6	AW	30–52	Snap Bushing	2

3001–342–1 Litter Assembly – 8" Shorter Bed

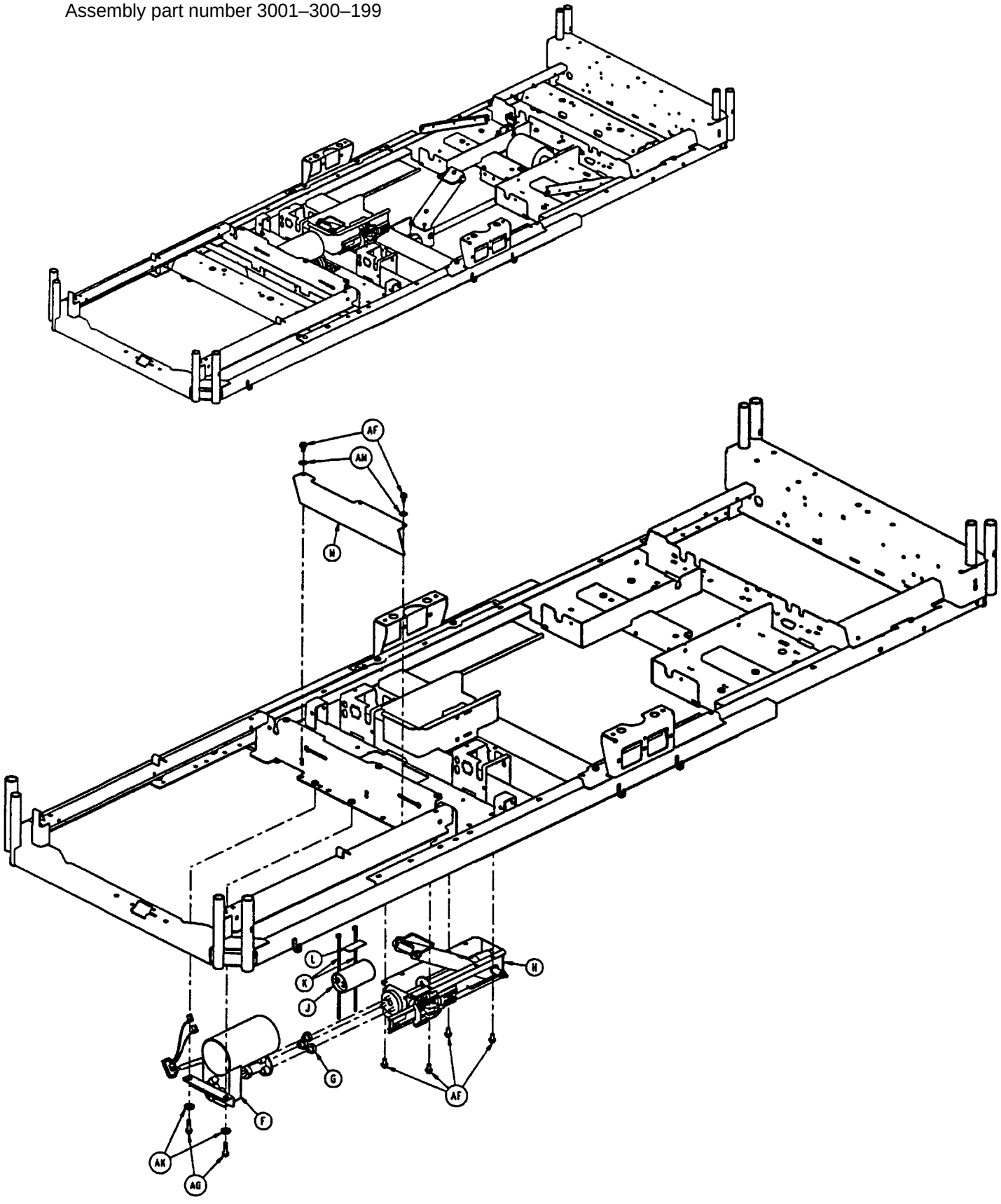
Item	Part No.	Part Name	Qty.
A	3001–342–898	Electrical Litter Ass'y	1
F	3001–342–48	Foot Cover Assembly	1
T	3001–342–105	Fowler Litter Ass'y	1
W	3001–342–180	Foot Litter Assembly	1
AC	3001–342–162	Foot Prop Rod	1
AT	3001–342–602	Fowler Angle Label	1

3001–343–1 Litter Assembly – Standard Bed

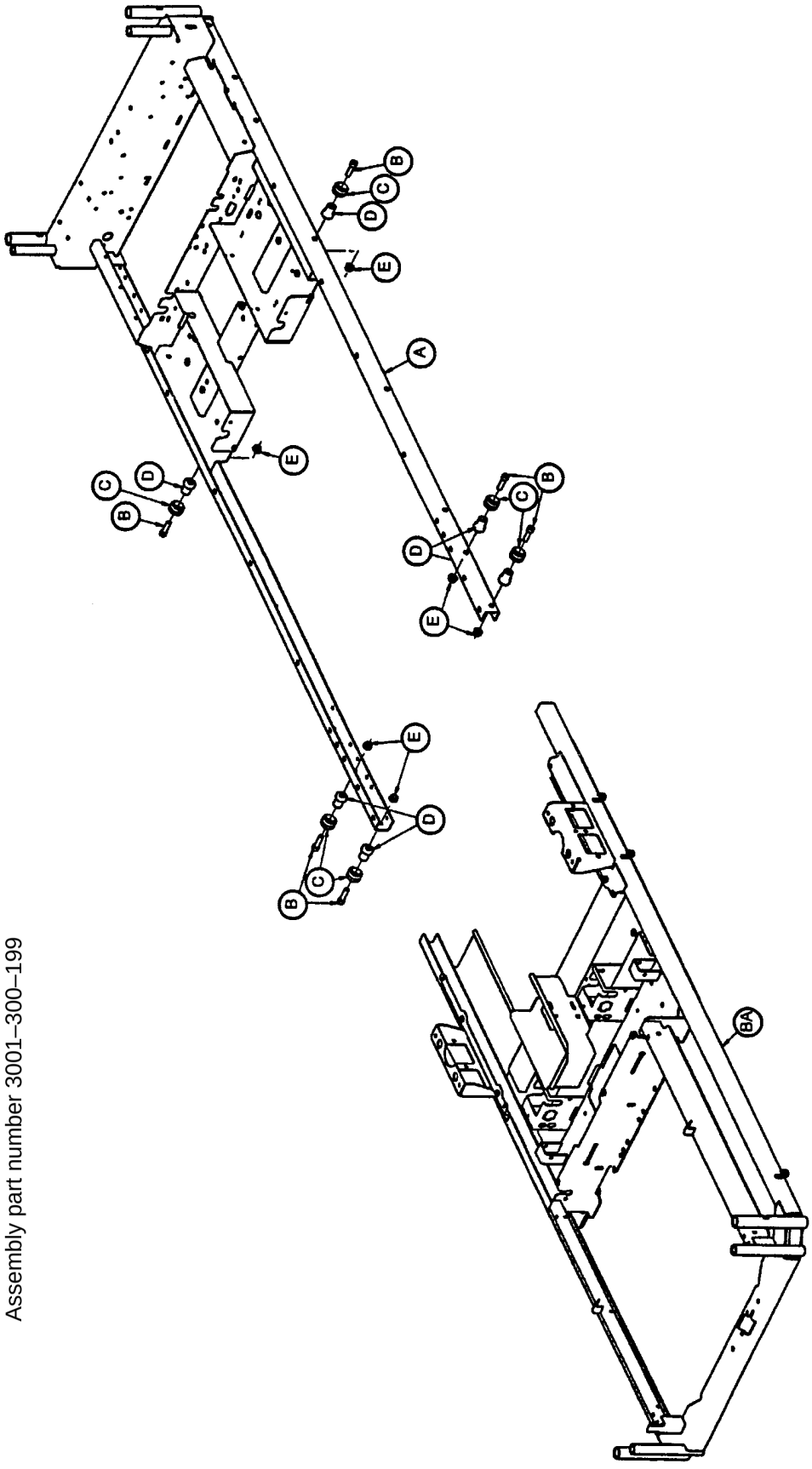
Item	Part No.	Part Name	Qty.
A	3001–343–898	Electrical Litter Ass'y	1
F	3001–300–48	Foot Cover Assembly	1
T	3001–300–105	Fowler Litter Ass'y	1
W	3001–300–180	Foot Litter Assembly	1
AC	3001–300–162	Foot Prop Rod	1
AT	3001–300–602	Fowler Angle Label	1

Litter Assembly, Mechanical

Assembly part number 3001–300–199

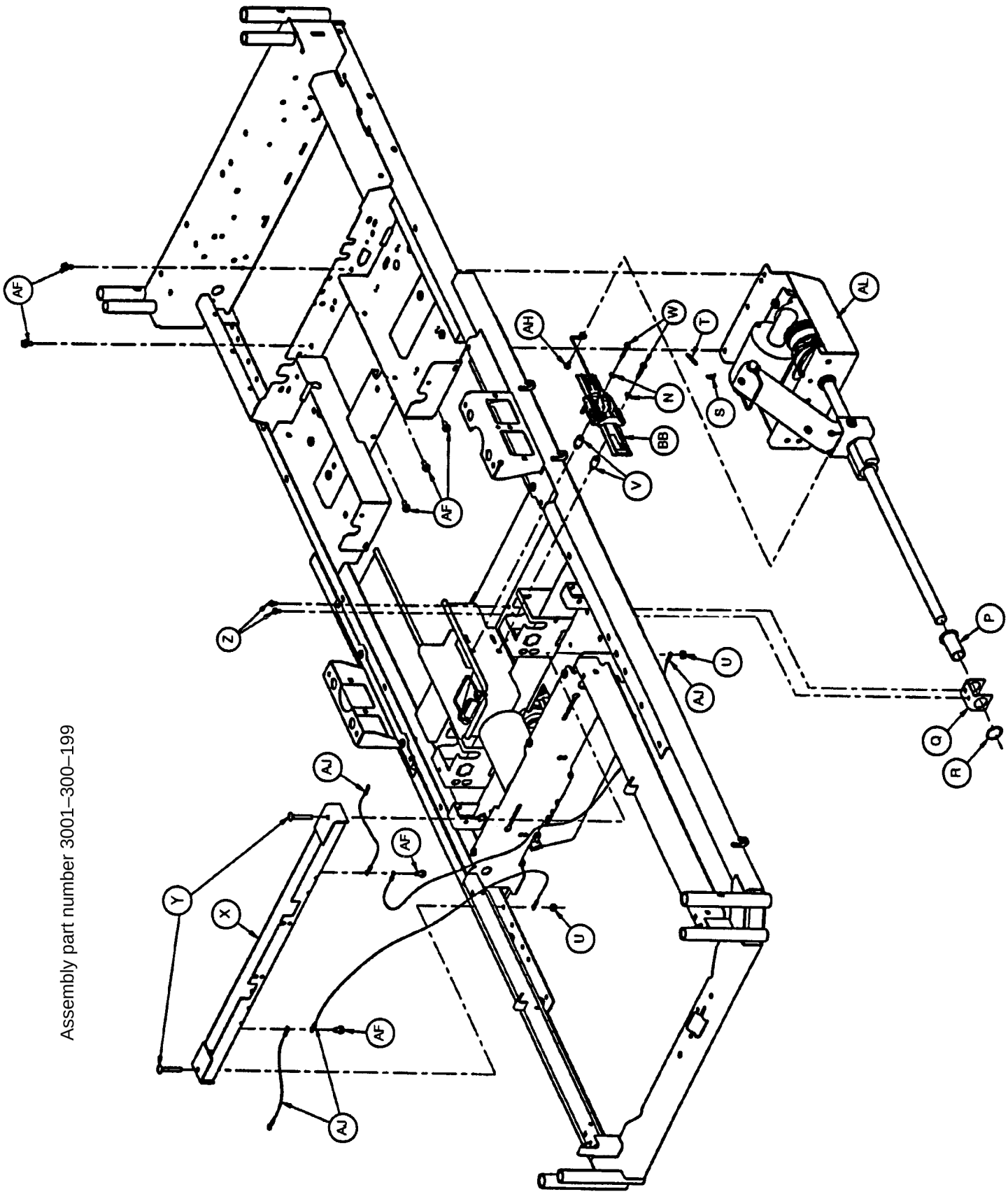


Litter Assembly, Mechanical



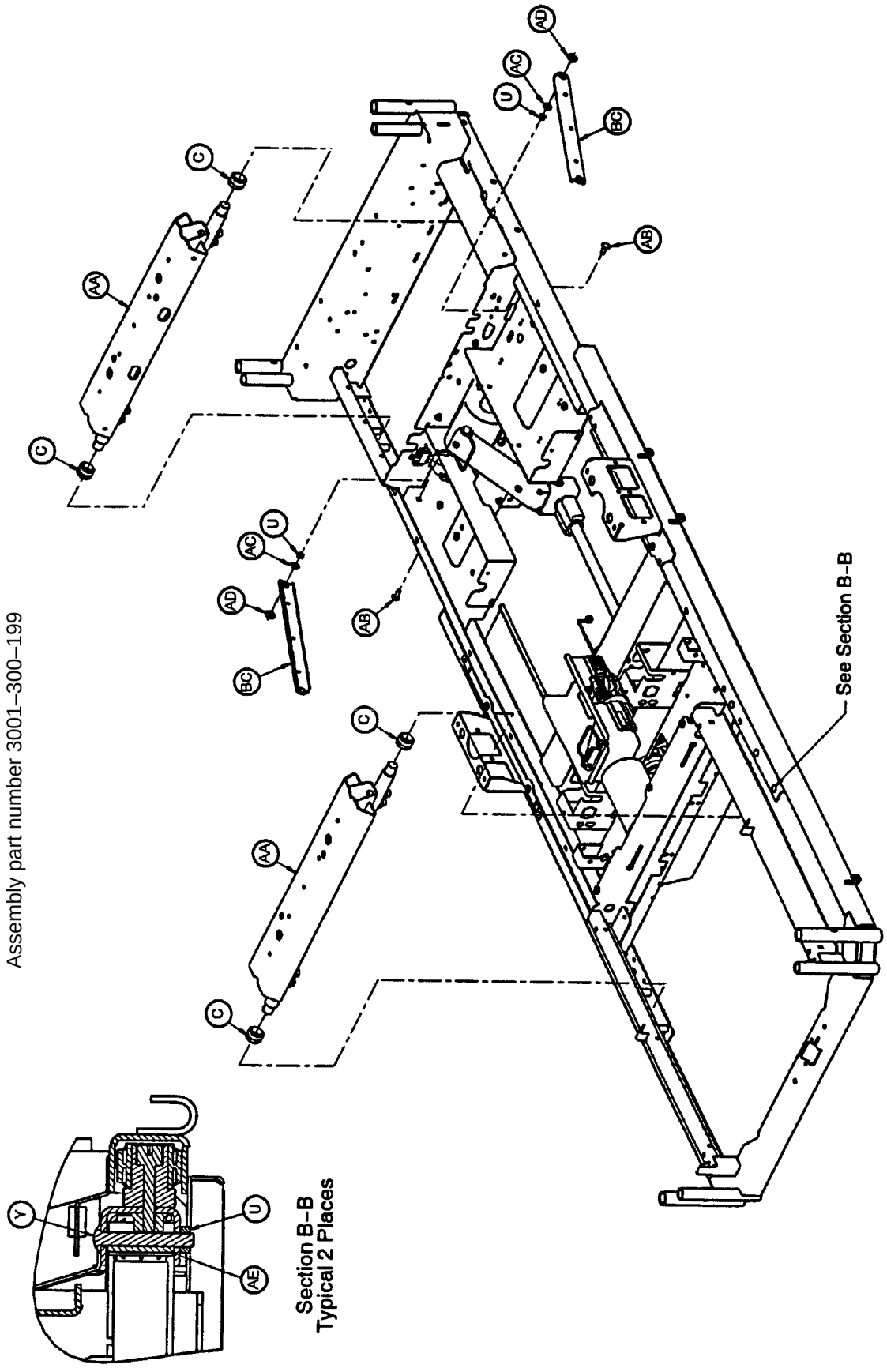
Assembly part number 3001–300–199

Litter Assembly, Mechanical



Assembly part number 3001–300–199

Litter Assembly, Mechanical



Litter Assembly, Mechanical

3001–300–199 Mechanical Litter Assembly – Common Components

Item	Part No.	Part Name	Qty.	Item	Part No.	Part Name	Qty.
A	3001–300–301	Stationary Frame Ass'y	1	U	16–6	Kep Nut	12
B	4–211	Soc. Hd. Cap Screw	6	V	52–800	Grommet	2
C	3000–300–353	Roller	10	W	23–251	Hex Washer Hd. Screw	2
D	3000–300–352	Roller Shaft	6	X	3001–300–320	Cross Support Ass'y	1
E	16–93	Flange Lock Nut	6	Y	5–22	Carriage Bolt	10
F	(page 127)	Gatch Motor Ass'y	1	Z	3–123	Hex Washer Hd. Screw	2
G	3000–300–455	CPR Isolation Bushing	3	AA	(page 132 & 133)	Std. Lift Header Ass'y	2
H	(page 128)	Gatch Screw Ass'y	1	AB	5–17	Carriage Bolt	2
J	3000–300–401	Capacitor	1	AC	11–303	Flat Washer	2
K	38–151	11" Cable Tie	2	AD	3001–300–99	Fowler Bushing	2
L	3000–300–402	Double–Sided Tape	1	AE	3001–300–4	Stationary Frame Spacer	8
M	3001–300–419	Gatch Shield	1	AF	3–221	Hex Washer Hd. Screw	13
N	13–18	Ext. Tooth Lock Washer	2	AG	3001–200–228	Mounting Standoff	2
P	3000–300–9	Screw Support Bushing	1	AH	23–82	Hex Washer Hd. Screw	1
Q	3001–300–8	Screw Support Bracket	1	AJ	3001–300–870	Litter Ground Jumper	4
R	28–122	Retaining RIng	1	AK	11–304	Shim Washer	2
S	52–764	Clip	1	AB	(page 130 & 131)	Fowler Drive Ass'y	1
T	3001–300–664	CPR Spring	1	AM	13–10	Ext. Tooth Lock Washer	2

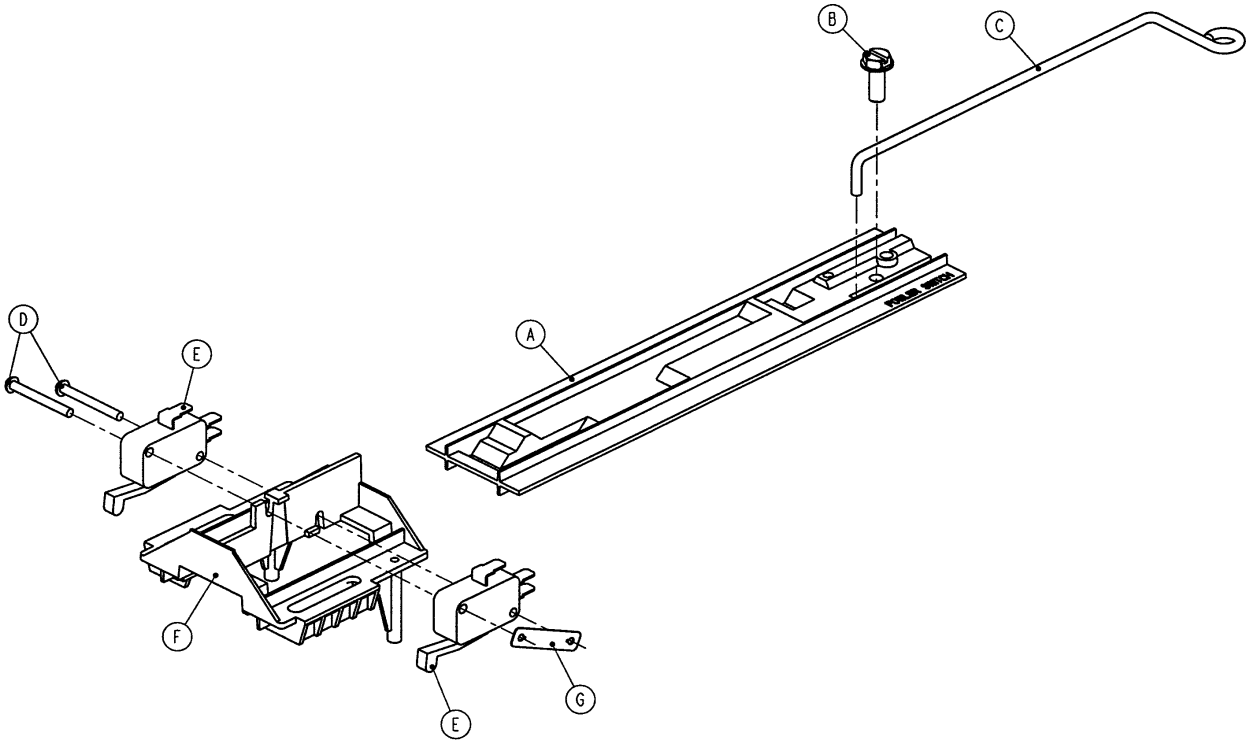
3001–342–199 Mech. Litter Ass'y – 8" Shorter Bed

Item	Part No.	Part Name	Qty.
AL	3001–342–450	Fowler Drive Ass'y	1
BA	3001–342–202	Moving Frame Assembly	1
BB	(page 126)	Fowler Limit Ass'y	1

3001–343–199 Mech. Litter Ass'y –Std. Bed

Item	Part No.	Part Name	Qty.
BA	3001–300–202	Moving Frame Assembly	1
BB	(page 126)	Fowler Limit Assembly	1
BC	3000–300–6	Fowler Link Assembly	2

Fowler Limit Switch Assembly



Assembly Part Number 3000–300–35 (Standard Bed)

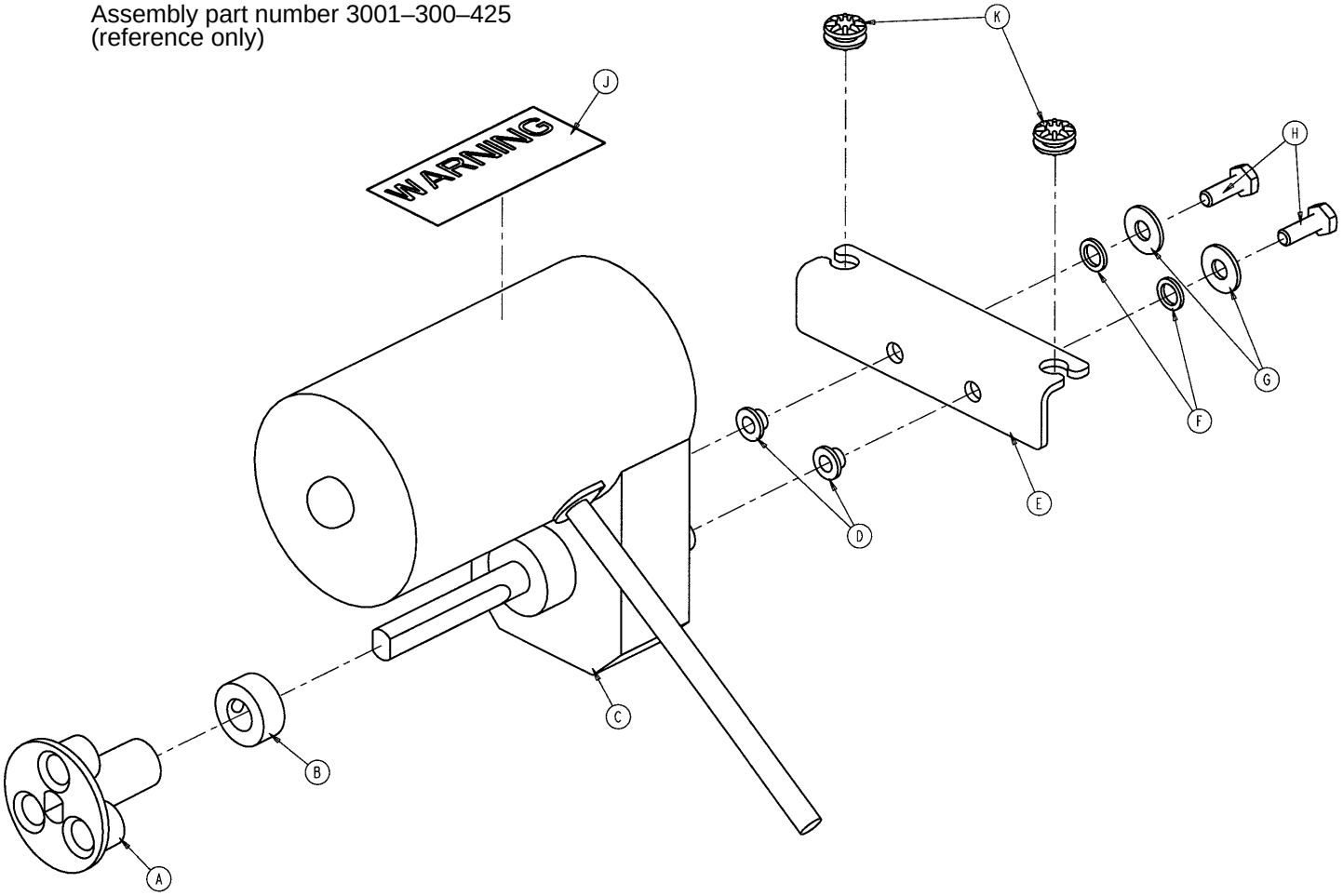
Item	Part No.	Part Name	Qty.
A	3000–300–36	Fowler Cam Card	1
B	23–82	Hex Washer Hd. Screw	1
C	3000–300–37	Link Wire	1
D	2–3	Round Hd. Screw	2
E	3000–300–41	Micro Switch	2
F	3000–300–44	Cam Guide	1
G	16–69	Twin Fastener	1

Assembly Part Number 3000–342–35 (8” Shorter Bed)

Item	Part No.	Part Name	Qty.
A	3000–342–36	Fowler Cam Card	1
B	23–55	Hex Washer Hd. Screw	1
C	3000–300–37	Link Wire	1
E	3000–300–41	Micro Switch	2
F	3000–300–44	Cam Guide	1
G	16–69	Twin Fastener	1

Gatch Motor Assembly

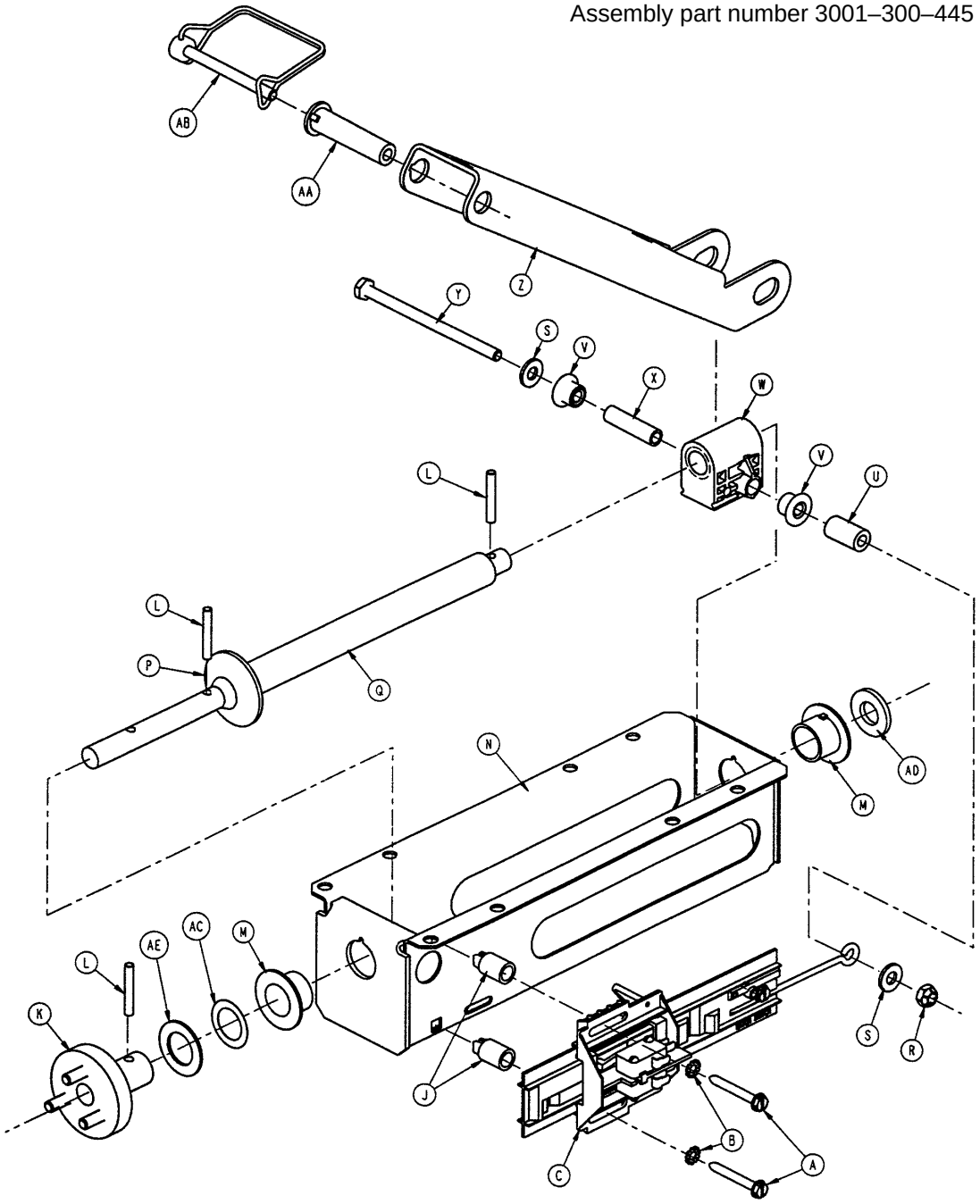
Assembly part number 3001–300–425
(reference only)



Item	Part No.	Part Name	Qty.
A	3001–300–434	Drive Screw Coupler	1
B	52–726	Shaft Collar	1
C	3001–300–438	Gatch Actuator Ass'y	1
D	52–718	Nylon Insulator	2
E	3001–300–442	Actuator Mounting Bracket	1
F	52–720	Nylon Flat Washer	2
G	11–3	Flat Washer	2
H	3–214	Hex Hd. Cap Screw	2
J	3000–300–604	Warning Label	1
K	3000–300–442	Fowler Drive Grommet	2

Gatch Screw Assembly

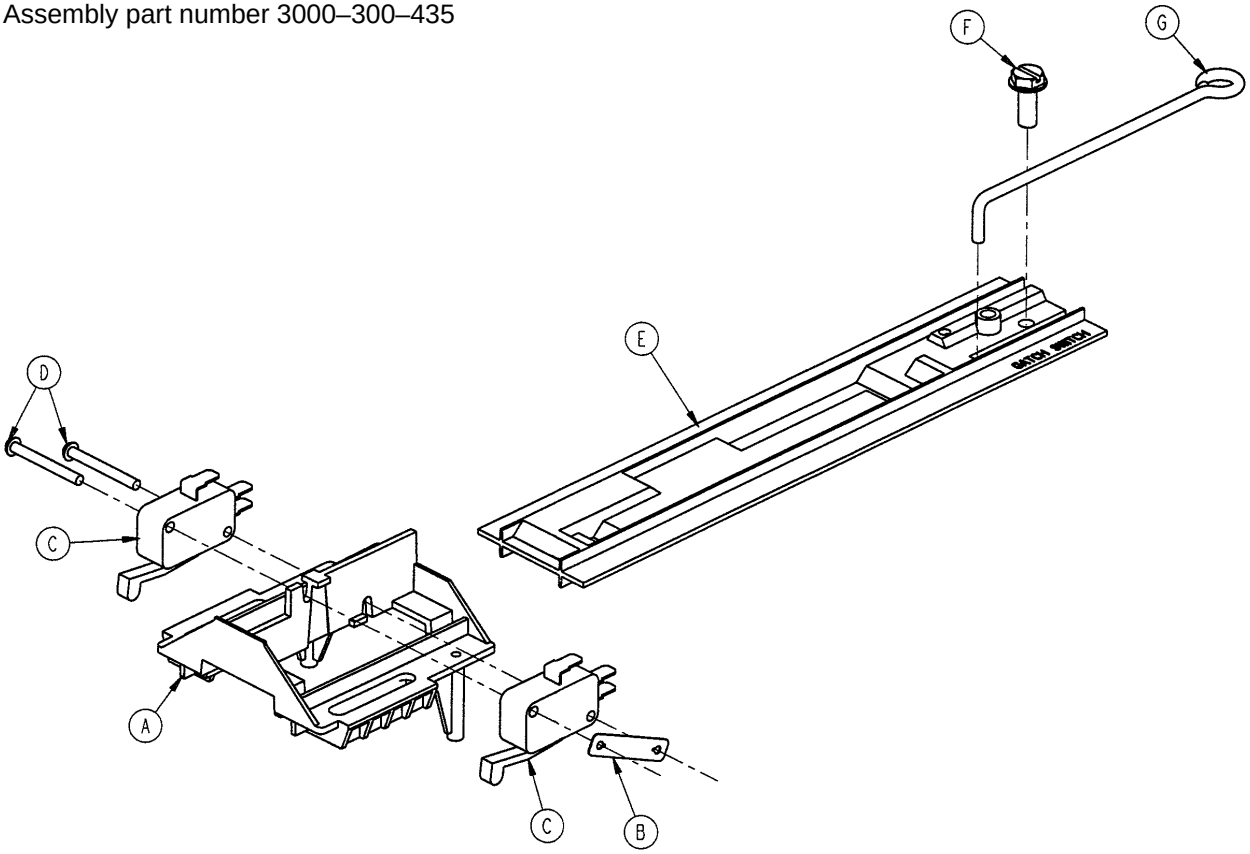
Assembly part number 3001–300–445



Item	Part No.	Part Name	Qty.	Item	Part No.	Part Name	Qty.
A	23–251	Hex Washer Hd. Screw	2	U	3000–300–428	Gatch Link Sleeve	1
B	13–18	Ext. Tooth Lock Washer	2	V	3000–300–1	Litter Pivot Bushing	2
C	(page 129)	Gatch Limit Switch Ass'y	1	W	3000–300–419	Gatch Nut	1
J	52–800	Grommet	2	X	3000–300–418	Gatch Nut Sleeve	1
K	3001–300–432	Drive Motor Coupling	1	Y	3–129	Hex Hd. Cap Screw	1
L	26–196	Groove Pin	3	Z	3000–300–421	Gatch Link	1
M	3000–300–415	Gatch Screw Bushing	2	AA	3000–300–420	Link Bushing	1
N	3001–300–405	Gatch Actuator Weldment	1	AB	3000–300–424	Hitch Pin	1
P	11–367	Flat Washer	1	AC	11–339	Shim Washer	1
Q	3001–300–411	Gatch Screw	1	AD	11–333	Flat Washer	1
R	16–16	Fiberlock Nut	1	AE	11–148	Nylon Thrust Washer	1
S	11–303	Flat Washer	2				

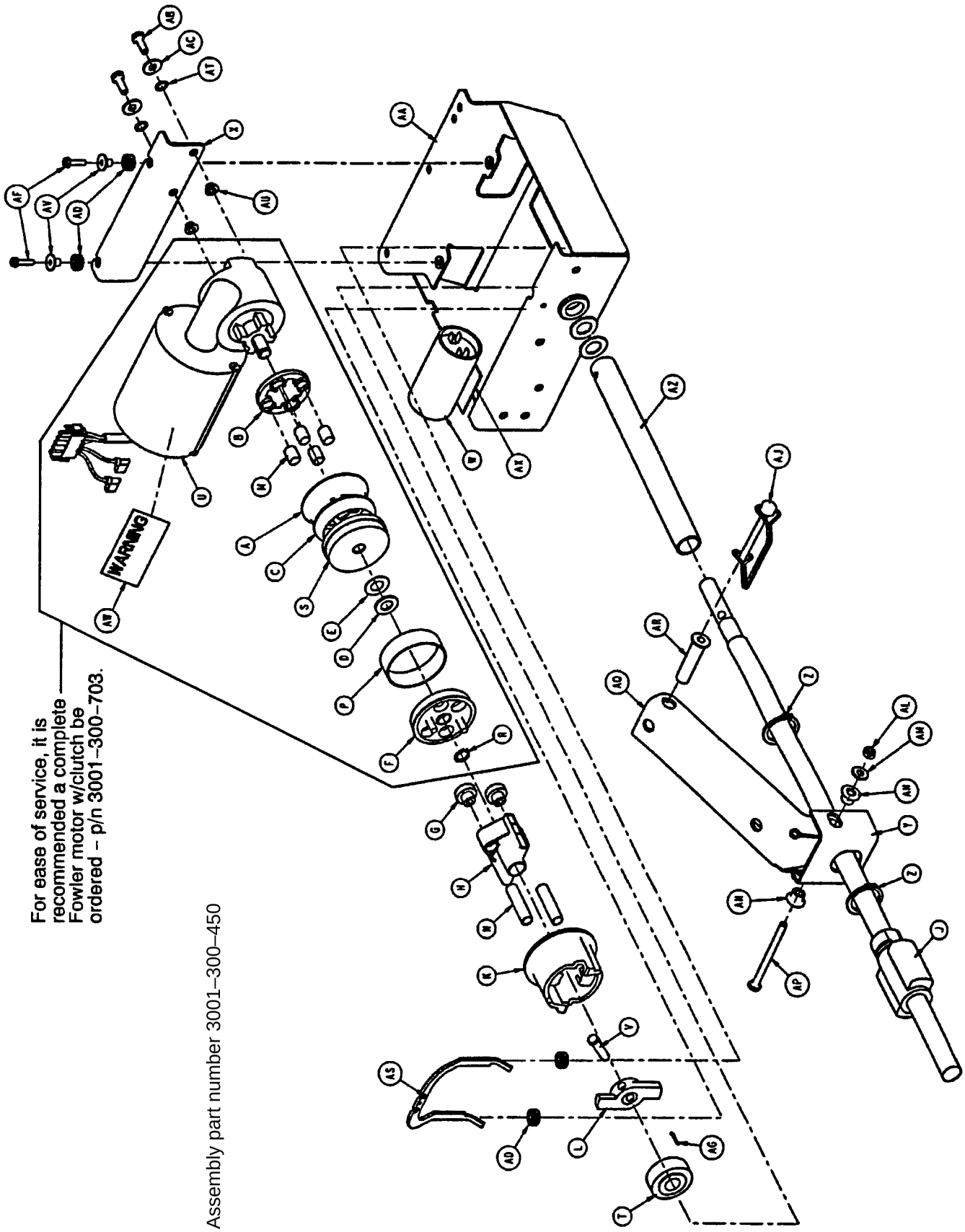
Gatch Limit Switch Assembly

Assembly part number 3000–300–435



Item	Part No.	Part Name	Qty.
A	3000–300–44	Cam Guide	1
B	16–69	Twin Fastener	1
C	3000–300–41	Micro Switch	2
D	2–3	Round Hd. Screw	2
E	3000–300–36	Gatch/Fowler Cam	1
F	23–55	Hex Washer Hd. Screw	1
G	3000–300–423	Link Wire	1

Fowler Drive Assembly



Fowler Drive Assembly

Item	Part No.	Part Name	Qty.
A	3000–300–451	CPR Spring Cup	1
B	3000–300–470	CPR Spring Seat	1
C	3000–300–452	CPR Brake Disc	1
D	3000–200–224	Idler Gear Thrust Washer	1
E	3000–200–225	CPR Thrust Bearing	1
F	3001–300–454	CPR Coupler	1
G	3000–300–455	CPR Isolation Bushing	2
H	3000–300–456	CPR Isolator	1
J	3000–300–457	CPR Ball Screw	1
K	3000–300–461	CPR Decoupler	1
L	3000–300–462	CPR Wing	1
M	3000–300–463	CPR Brake Spring	4
N	3000–300–464	CPR Engagement Spring	2
P	3000–300–465	CPR Clutch Spring	1
R	28–131	External Retaining Ring	1
S	3000–300–469	Brake Cup	1
T	3000–300–471	Roller Bearing	1
U	*3001–400–472	CPR Motor	1
V	3000–300–473	Clevis Pin	1
W	3000–300–453	Motor Capacitor	1
X	3001–300–463	Actuator Mounting Bracket	1
Y	3000–300–497	Fowler Link Bracket	1
Z	28–120	External Retaining Ring	2
AA	3001–300–460	Fowler Actuator Weldment	1
AB	3–214	Hex Hd. Cap Screw	2
AC	11–3	Flat Washer	2
AD	3000–300–442	Fowler Drive Grommet	4
AF	3–132	Hex Washer Hd. Screw	2
AG	27–17	Cotter Pin	1
AJ	3000–300–424	Hitch Pin	1
AK	3000–300–114	Cable Tie	2
AL	16–16	Fiberlock Nut	1
AM	11–303	Flat Washer	1
AN	3000–300–1	Litter Pivot Bushing	2
AP	3–206	Hex Hd. Cap Screw	1
AQ	3001–300–495	Fowler Link	1
AR	3000–300–420	Link Bushing	1
AS	3000–300–658	CPR Release Arm	1
AT	52–719	Nylon Flat Washer	2
AU	52–718	Nylon Insulator	2
AV	3001–300–412	Gatch Actuator Mtg. Spacer	2
AW	3000–300–604	Warning Label	1
AX	3000–300–402	Double–Stick Tape	1

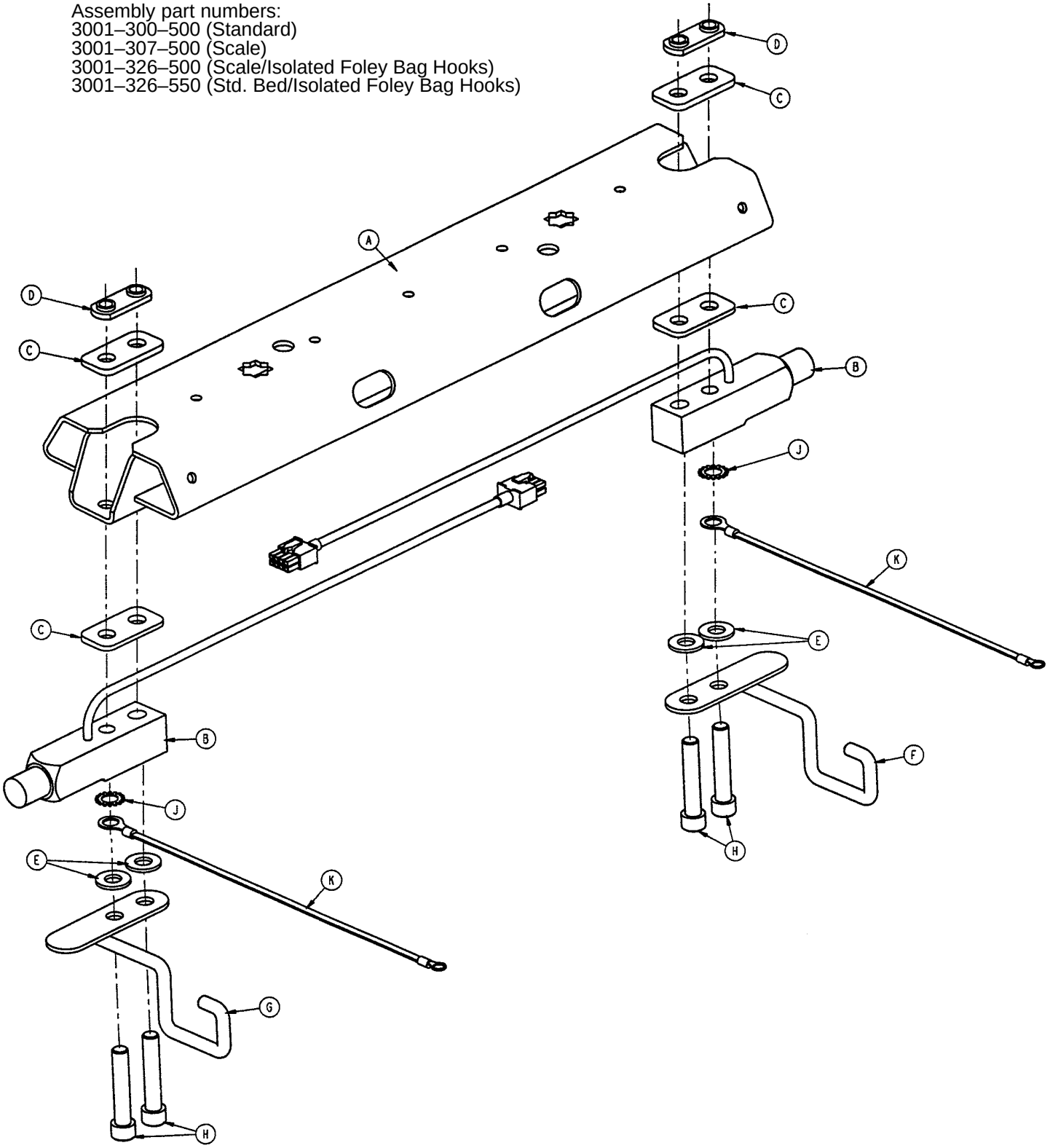
*See page 8 for the part number of a complete Fowler motor w/clutch.

Fowler Drive Assembly – 8” Shorter Bed

Item	Part No.	Part Name	Qty.
AZ	3001–342–459	Fowler Nut Stop Tube	1

Lift Header Assemblies

Assembly part numbers:
3001–300–500 (Standard)
3001–307–500 (Scale)
3001–326–500 (Scale/Isolated Foley Bag Hooks)
3001–326–550 (Std. Bed/Isolated Foley Bag Hooks)



Lift Header Assemblies

3001–300–500 Lift Header Assembly – Standard Bed

Item	Part No.	Part Name	Qty.
A	3001–300–525	Lift Header Assembly	1
B	3001–300–511	“Imitation” Load Cell	2
D	3001–307–25	Load Cell Shim	2
E	11–301	Flat Washer	4
F	4–288	Hex Soc. Hd. Cap Screw	4

3001–307–500 Lift Header Assembly – Scale Bed

Item	Part No.	Part Name	Qty.
A	3001–300–525	Lift Header Assembly	1
B	3001–307–53	Load Cell	2
C	3001–307–21	Load Cell Shim	4
D	3001–307–25	Load Cell Shim	2
E	11–301	Flat Washer	4
H	4–288	Hex Soc. Hd. Cap Screw	4
J	13–32	External Tooth Lock Washer	2
K	3001–300–871	Ground Jumper	2

3001–326–500 Lift Header Assembly – Scale Bed/Isolated Foley Bag Hooks

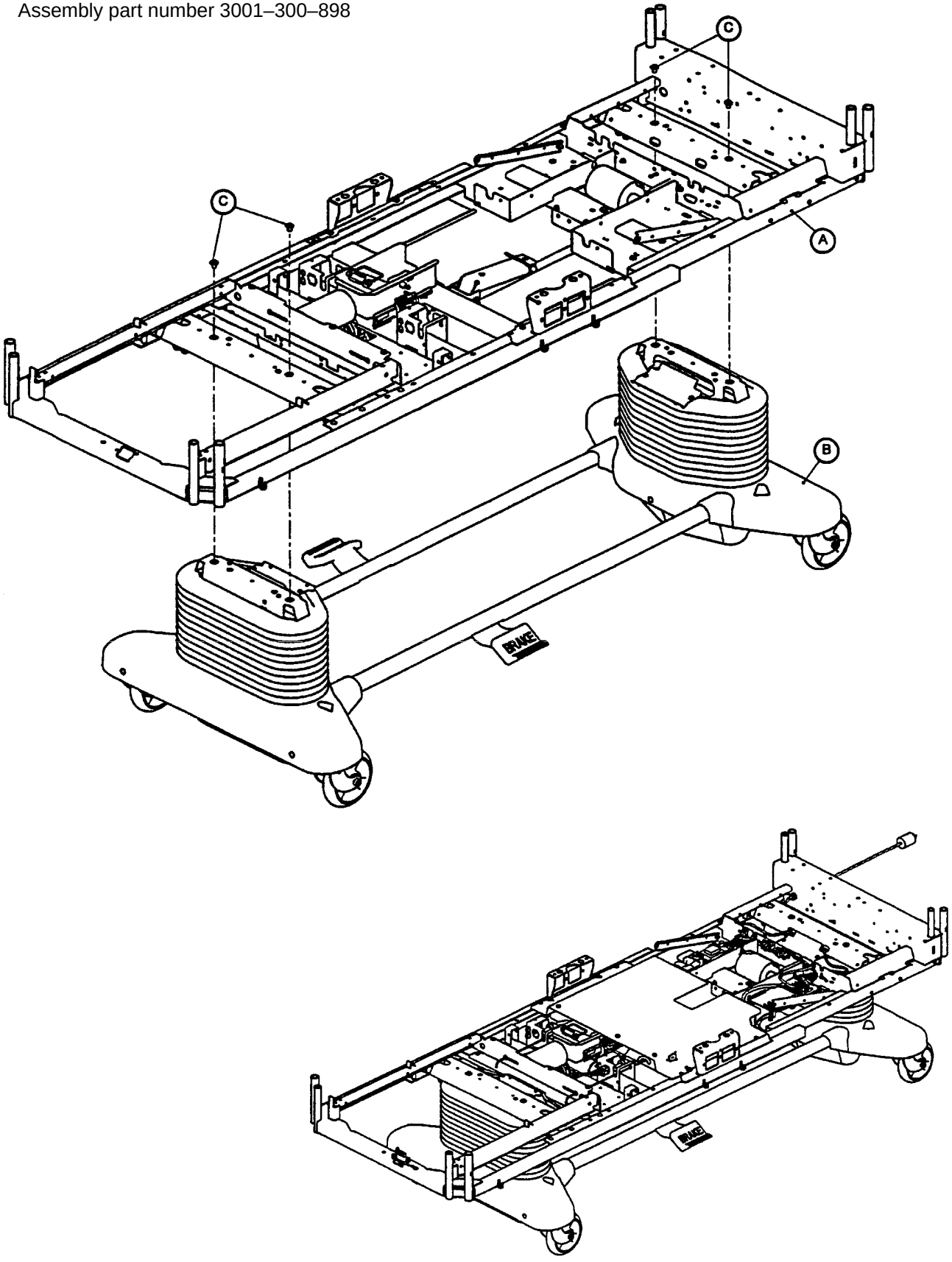
Item	Part No.	Part Name	Qty.
A	3001–300–525	Lift Header Assembly	1
B	3001–307–53	Load Cell	2
D	3001–307–25	Load Cell Shim	2
E	11–301	Flat Washer	2
F	3001–326–20	Isolated Foley Bag Ass’y, Rt.	1
G	3001–326–10	Isolated Foley Bag Ass’y, Lt.	1
H	4–288	Hex Soc. Hd. Cap Screw	4
J	13–32	External Tooth Lock Washer	2
K	3001–300–871	Ground Jumper	2

3001–326–550 Lift Header Assembly – Standard Bed/Isolated Foley Bag Hooks

Item	Part No.	Part Name	Qty.
A	3001–300–525	Lift Header Assembly	1
B	3001–300–511	“Imitation” Load Cell	2
D	3001–307–25	Load Cell Shim	2
F	3001–326–20	Isolated Foley Bag Ass’y, Rt.	1
G	3001–326–10	Isolated Foley Bag Ass’y, Lt.	1
H	4–288	Hex Soc. Hd. Cap Screw	4

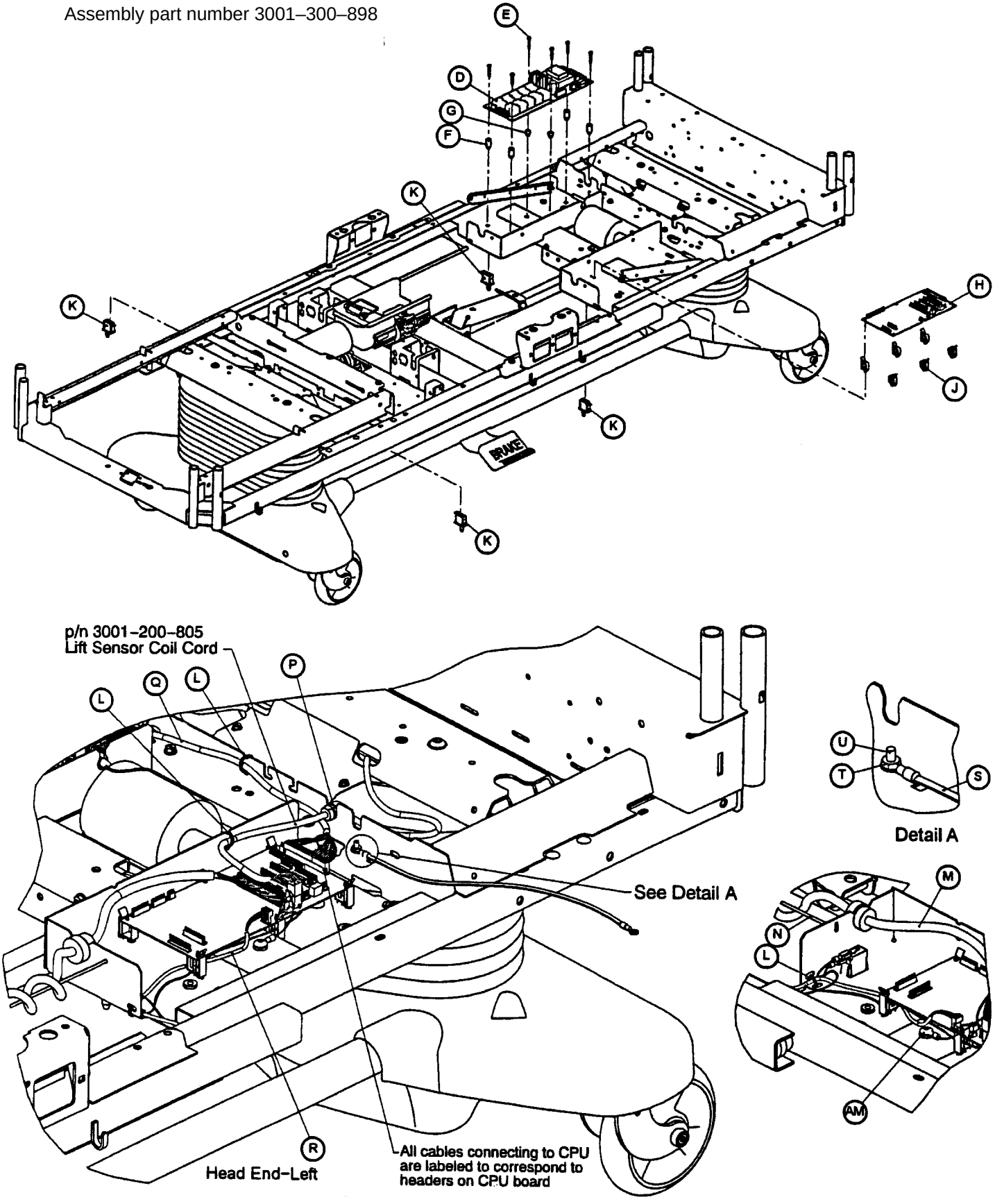
Litter Assembly, Electrical

Assembly part number 3001–300–898

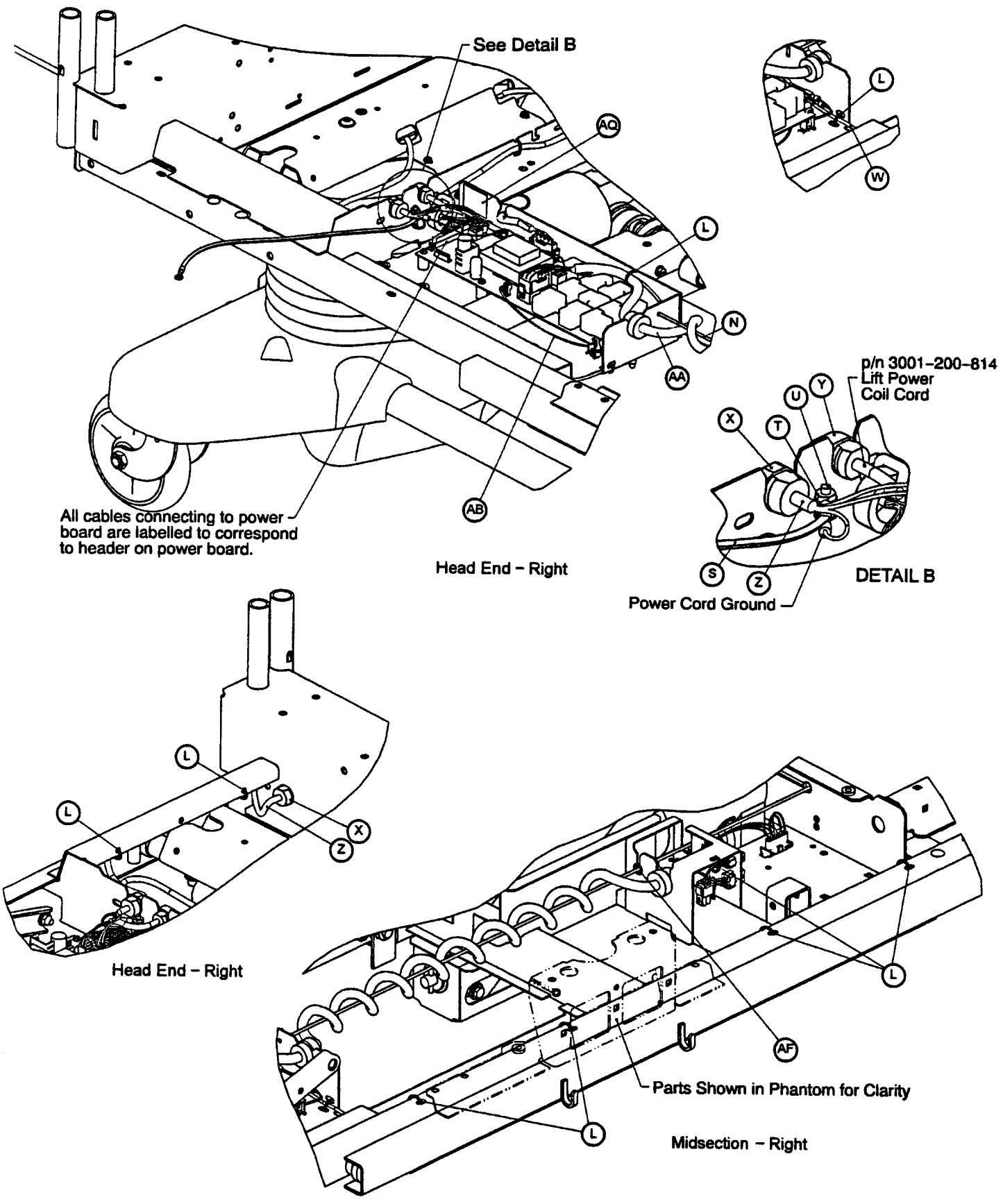


Litter Assembly, Electrical

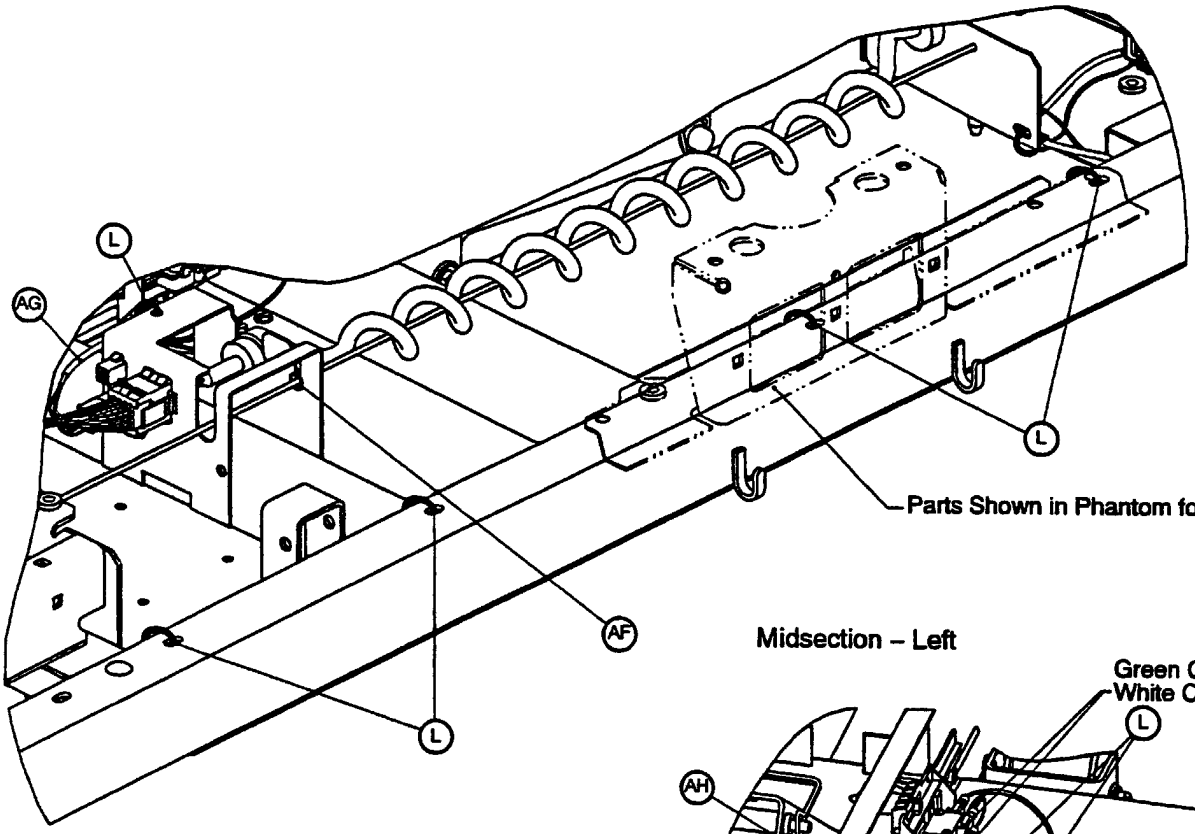
Assembly part number 3001–300–898



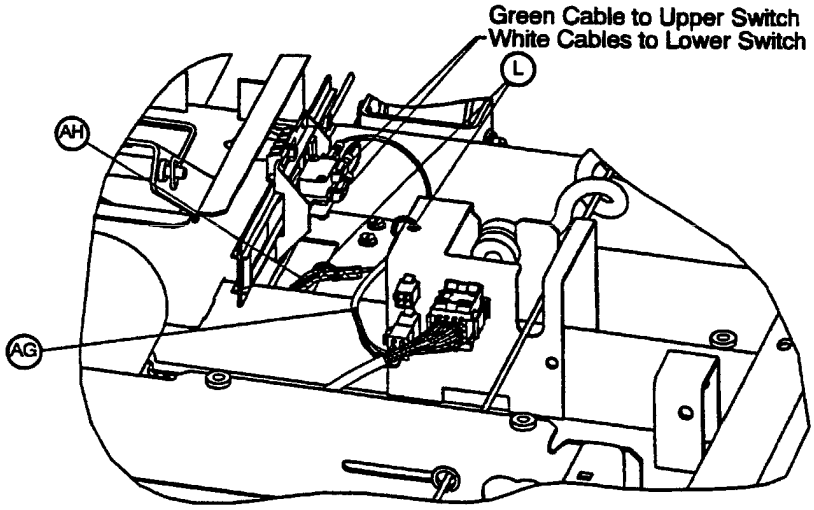
Litter Assembly, Electrical



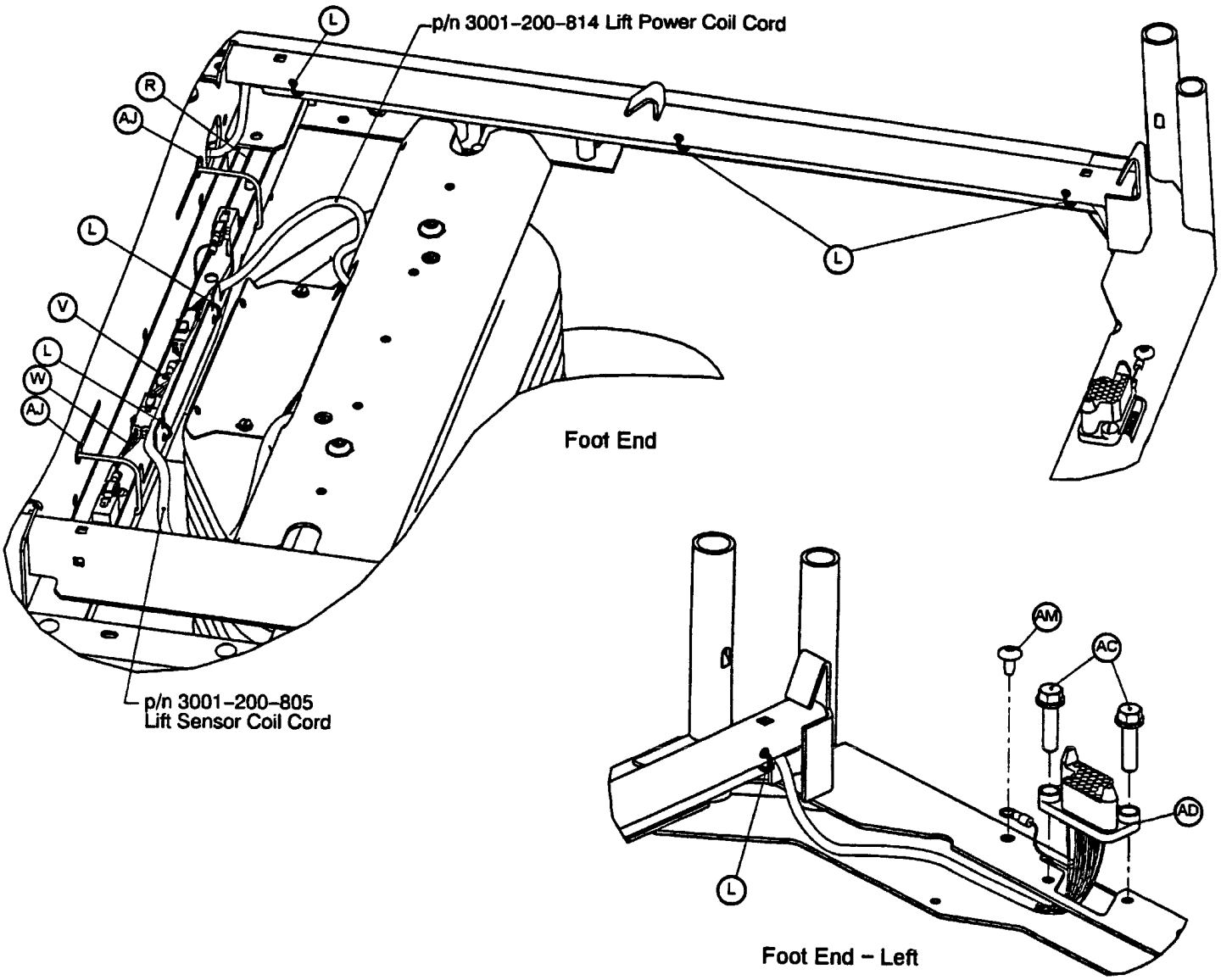
Litter Assembly, Electrical



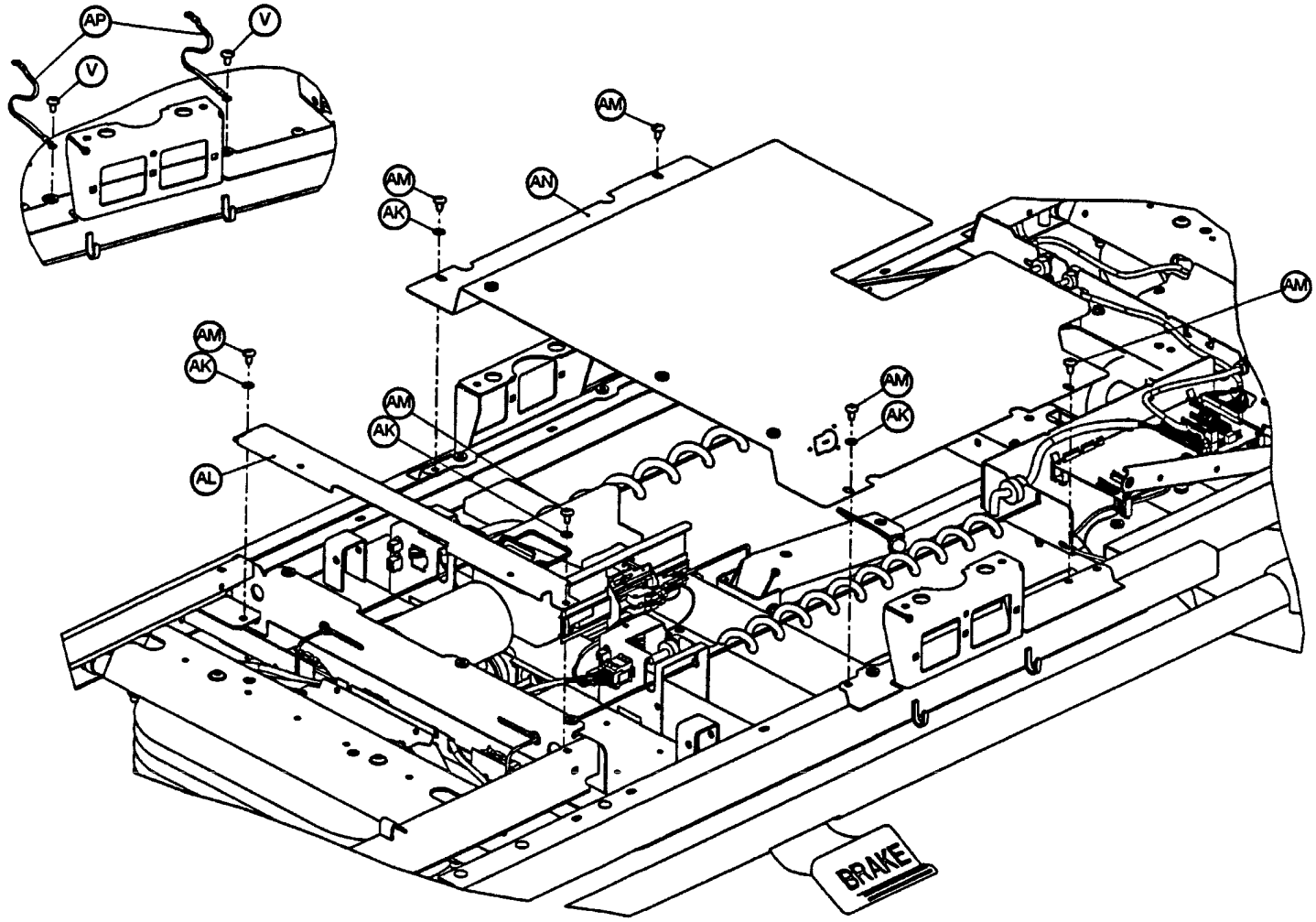
Midsection – Left

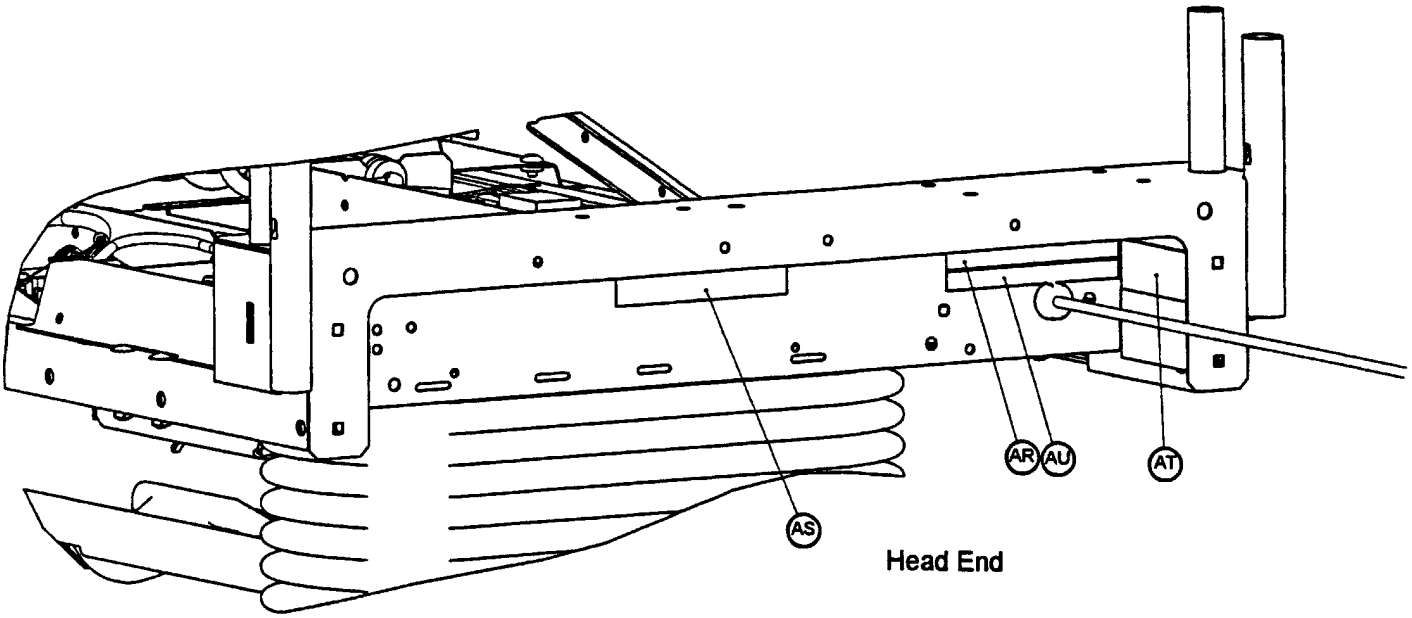


Litter Assembly, Electrical



Litter Assembly, Electrical





Litter Assembly, Electrical

3001–300–898 Electrical Litter Assembly – Standard Components

Item	Part No.	Part Name	Qty.	Item	Part No.	Part Name	Qty.
A	(page 121–125)	Litter Ass'y, Mechanical	1	X	30–27	Strain Relief	2
B	(page 100–106)	Base Assembly	1	Y	30–48	Strain Relief	1
C	4–245	Flanged But. Hd. Screw	1	Z	3000–300–820	Standard Power Cord	1
D	3001–300–910	Power Board Assembly	1	AA	3001–300–822	Litter Power Coil Cord	1
E	3–137	Hex Washer Hd. Screw	6	AB	3001–300–810	Motion Int. Switch Cable	1
F	52–750	Grommet	4	AC	3001–200–228	Mounting Standoff	2
G	52–287	Board Mount	2	AD	3001–300–808	Litter Drawer Cable	1
H	3001–307–910	CPU Board	1	AF	52–765	Nyliner Bearing	2
J	52–756	Circuit Board Support	6	AG	3001–300–809	Limit Switch Cable	1
K	3000–300–58	Switch Plunger	4	AH	7900–1–292	Cable Wrap	1
L	3000–300–113	Cable Tie	24	AJ	52–767	Nyliner Bearing	2
M	3001–300–824	Litter Signal Coil Cord	1	AK	13–10	Ext. Tooth Lock Washer	4
N	3001–300–11	Guide Rod	2	AL	3001–300–21	Cross Support Cover	1
P	30–47	Heyco Strain Relief	1	AM	7–53	Truss Hd. Torx Screw	6
Q	3001–300–804	PCB/CPU Control Cable	1	AN	3001–300–65	Mid Litter Cover Ass'y	1
R	3001–300–805	Litter Pot Cable	1	AP	3001–300–870	8" Litter Ground Jumper	4
S	3001–300–872	Litter Ground Jumper	2	AQ	3001–300–601	Power Fuse Label	1
T	16–41	Kep Nut	3	AR	3000–300–627	Specification Label	1
U	3–132	Hex Washer Hd. Screw	2	AS	1550–90–1	Hosp. Grade Plug Label	1
W	3001–300–807	Foot End Lift Cable	1	AT	2011–1–104	Warning Label	1
				AU	3001–300–628	Patent Spec. Label	1

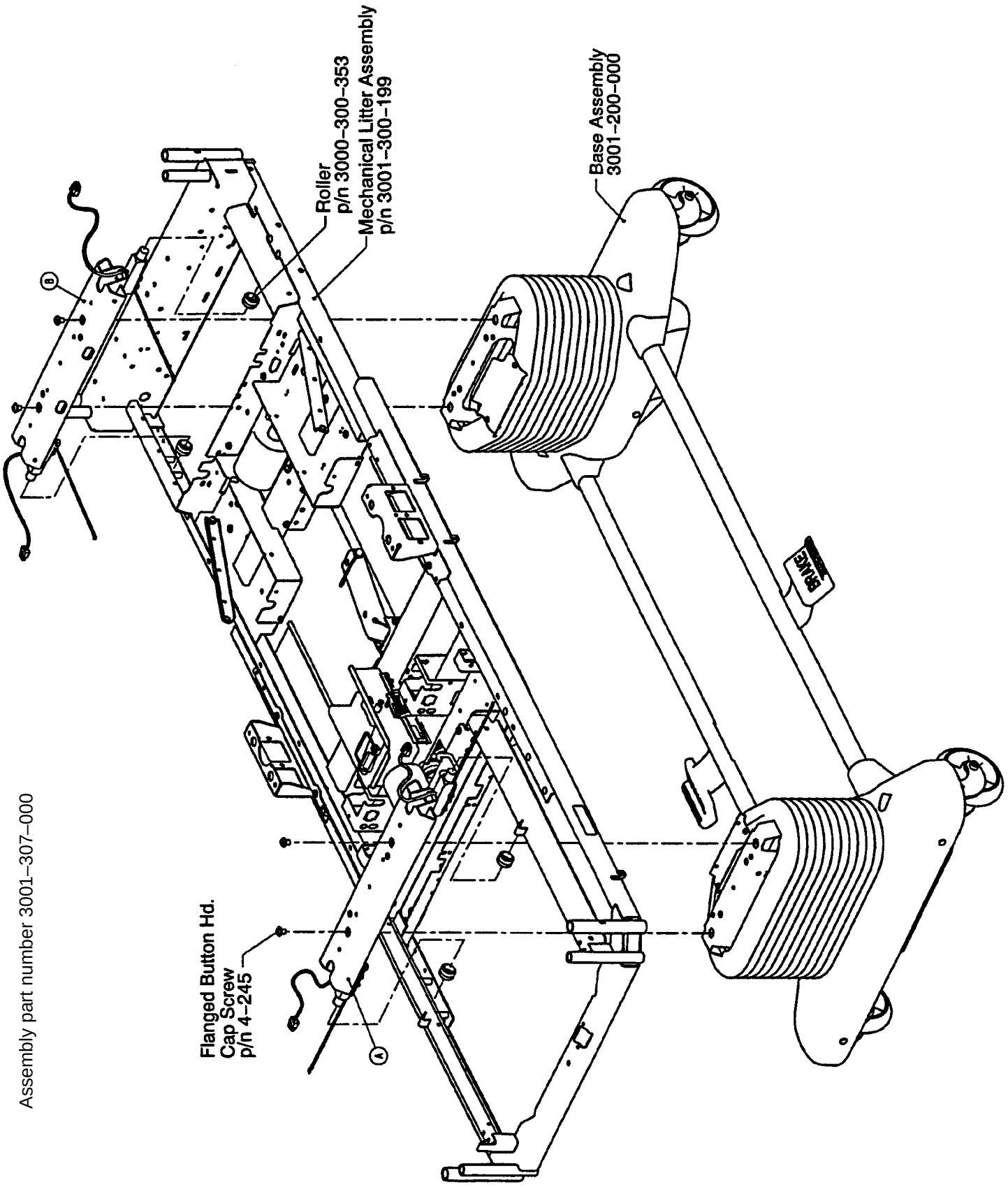
3001–342–898 Litter Assembly – 8" Shorter Bed

Item	Part No.	Part Name	Qty.
A	(page 121–125)	Litter Ass'y, Mechanical	1

3001–343–898 Litter Ass'y – Standard Bed

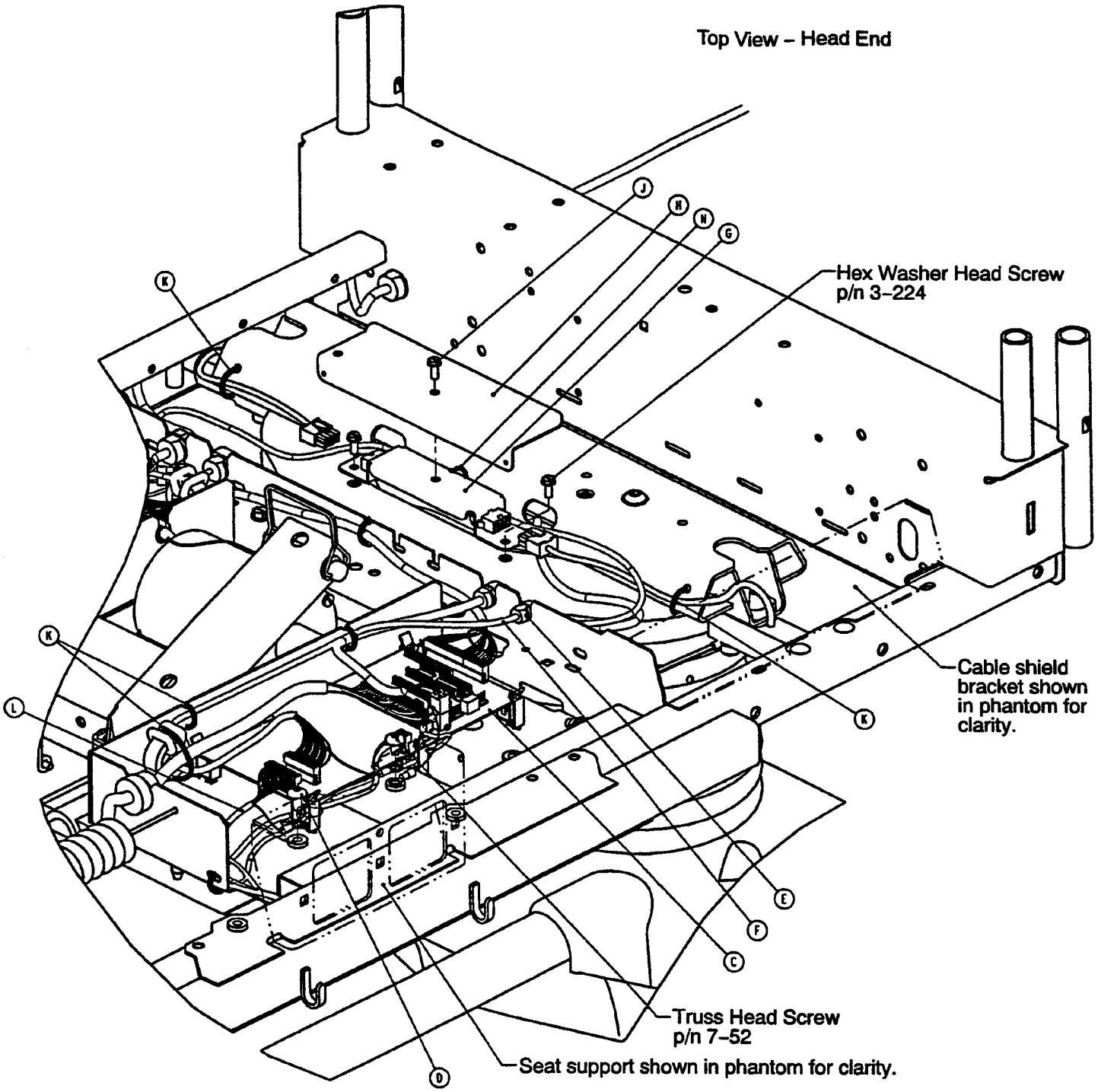
Item	Part No.	Part Name	Qty.
A	(page 121–125)	Litter Ass'y, Mechanical	1

Litter Assembly, Scale and/or Bed Exit Option

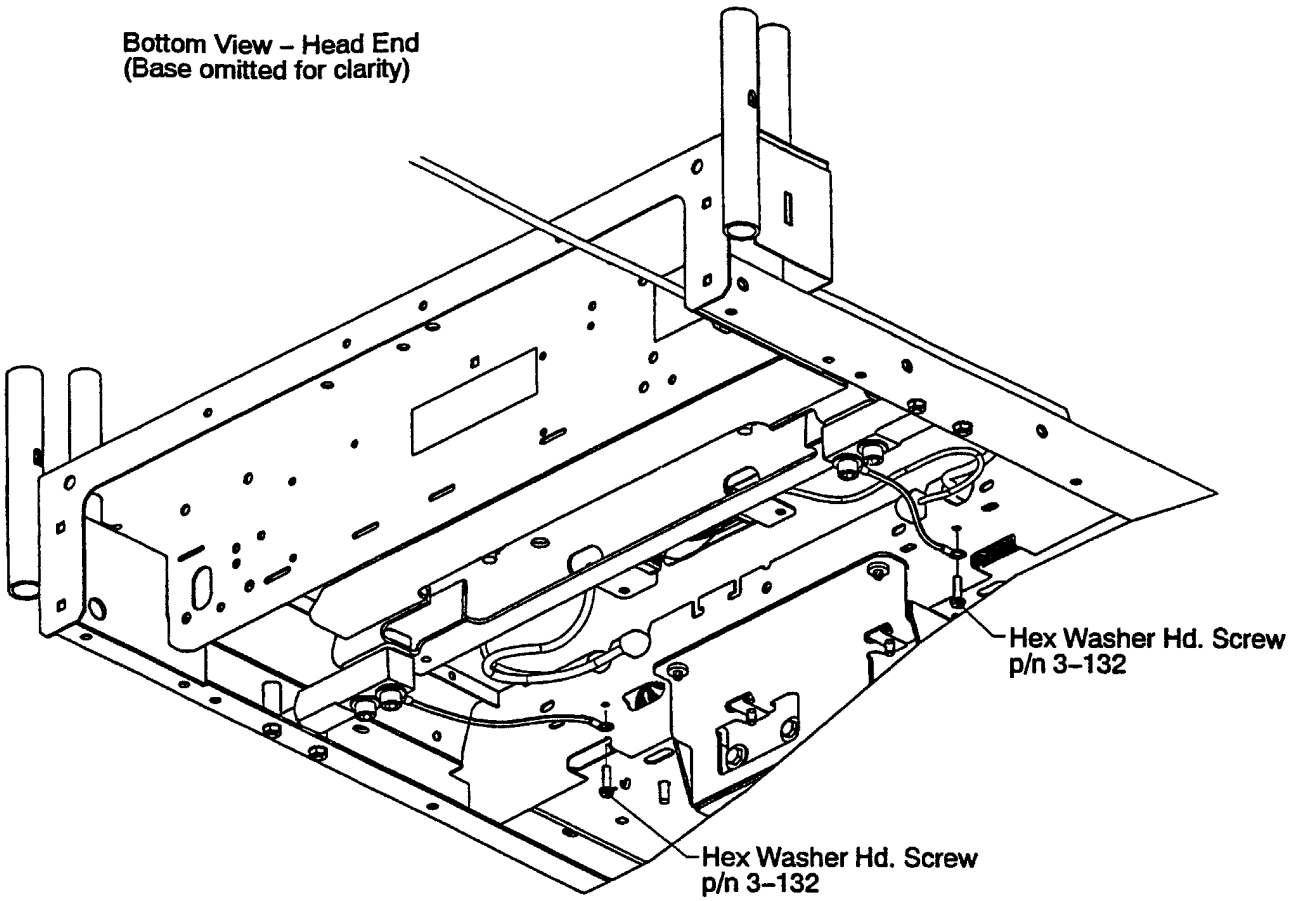


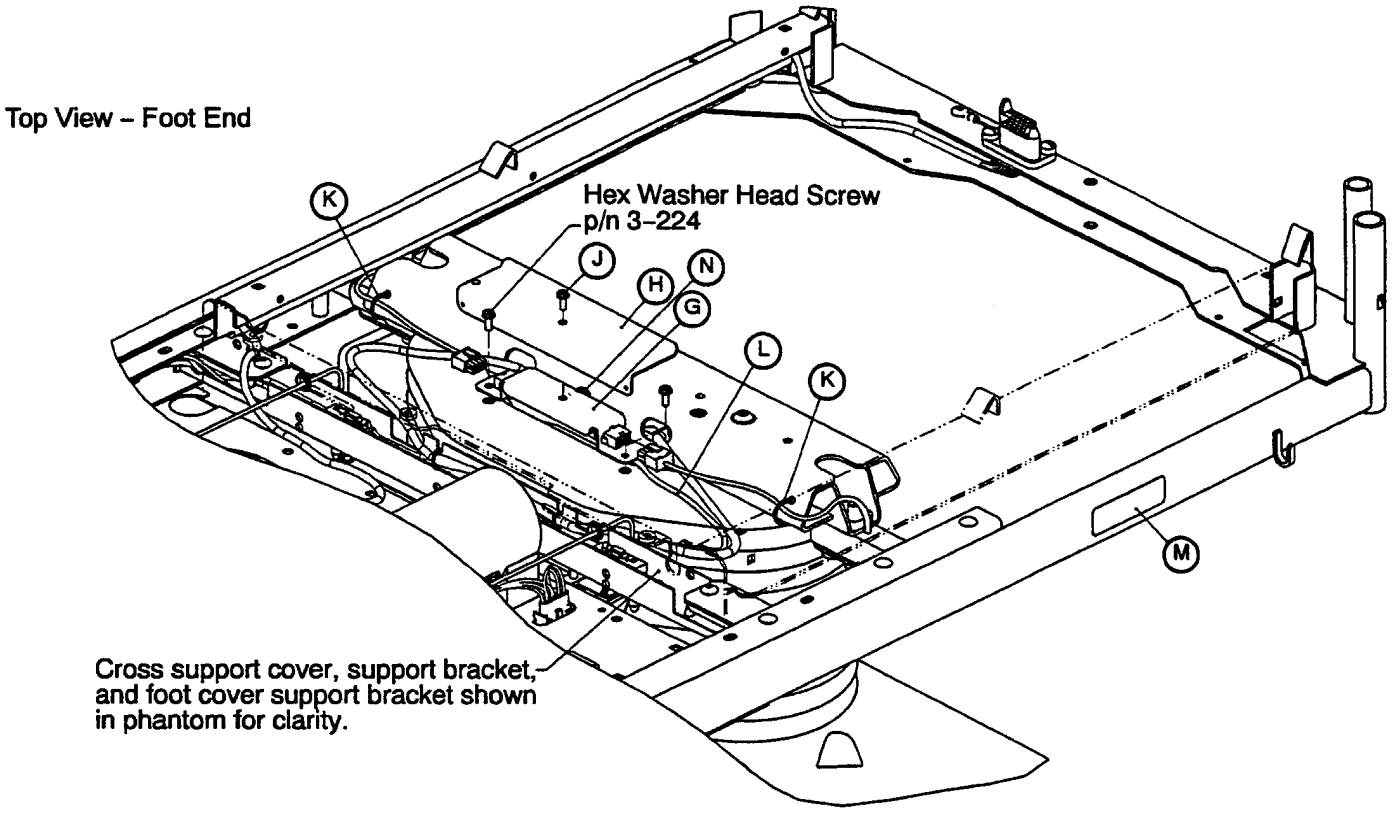
Assembly part number 3001–307–000

Litter Assembly, Scale and/or Bed Exit Option

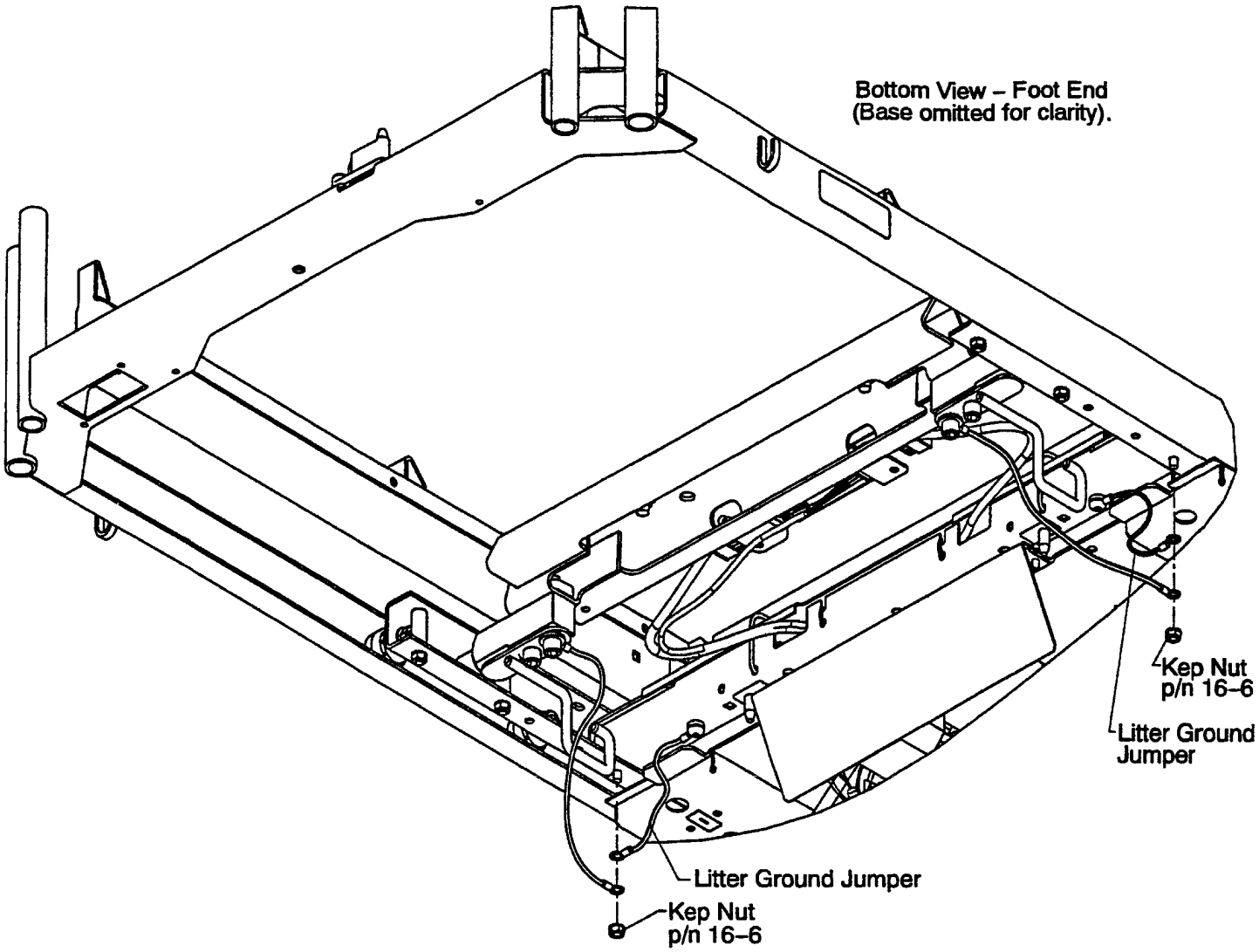


Litter Assembly, Scale and/or Bed Exit Option





Litter Assembly, Scale and/or Bed Exit Option

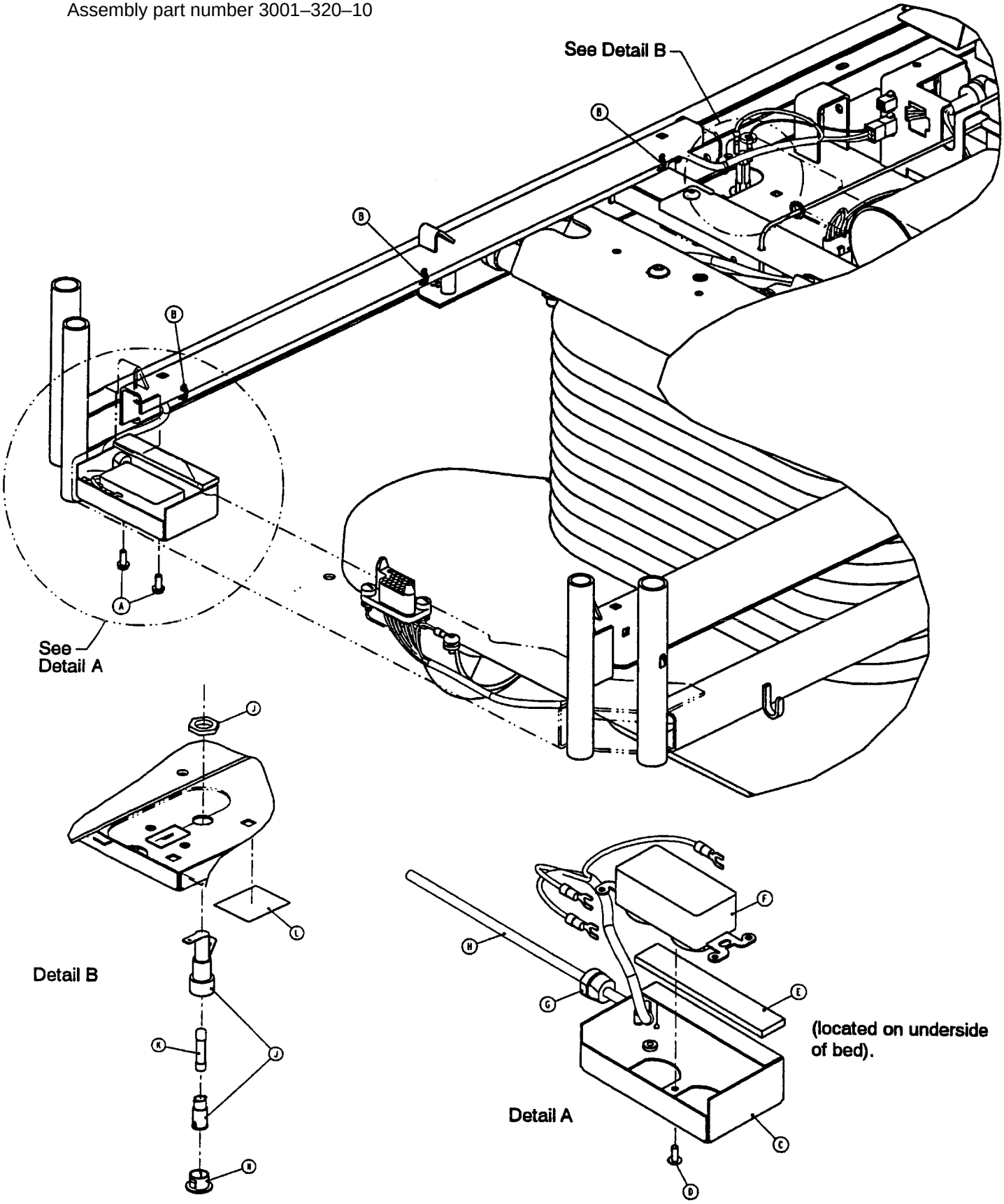


Litter Assembly, Scale and/or Bed Exit Option

Item	Part No.	Part Name	Qty.
A	(page 132 & 133)	Lift Header Ass'y, Scale w/Foley	1
B	(page 132 & 133)	Lift Header Ass'y, Scale	1
C	3001–307–910	CPU Board Assembly	1
D	7–53	Truss Hd. Screw	1
E	30–49	Strain Relief	1
F	3001–307–812	Head End Load Cell Cable	1
G	3001–307–11	Load Cell Connector Bracket	2
H	3001–307–12	Load Cell Bracket Cover	2
J	3–224	Hex Washer Hd. Screw	2
K	3000–300–113	Cable Tie	6
L	3001–307–813	Foot End Load Cell Cable,	1
M	3000–300–601	Foley Bag Hook Label	2
N	3000–300–114	Cable Tie	2

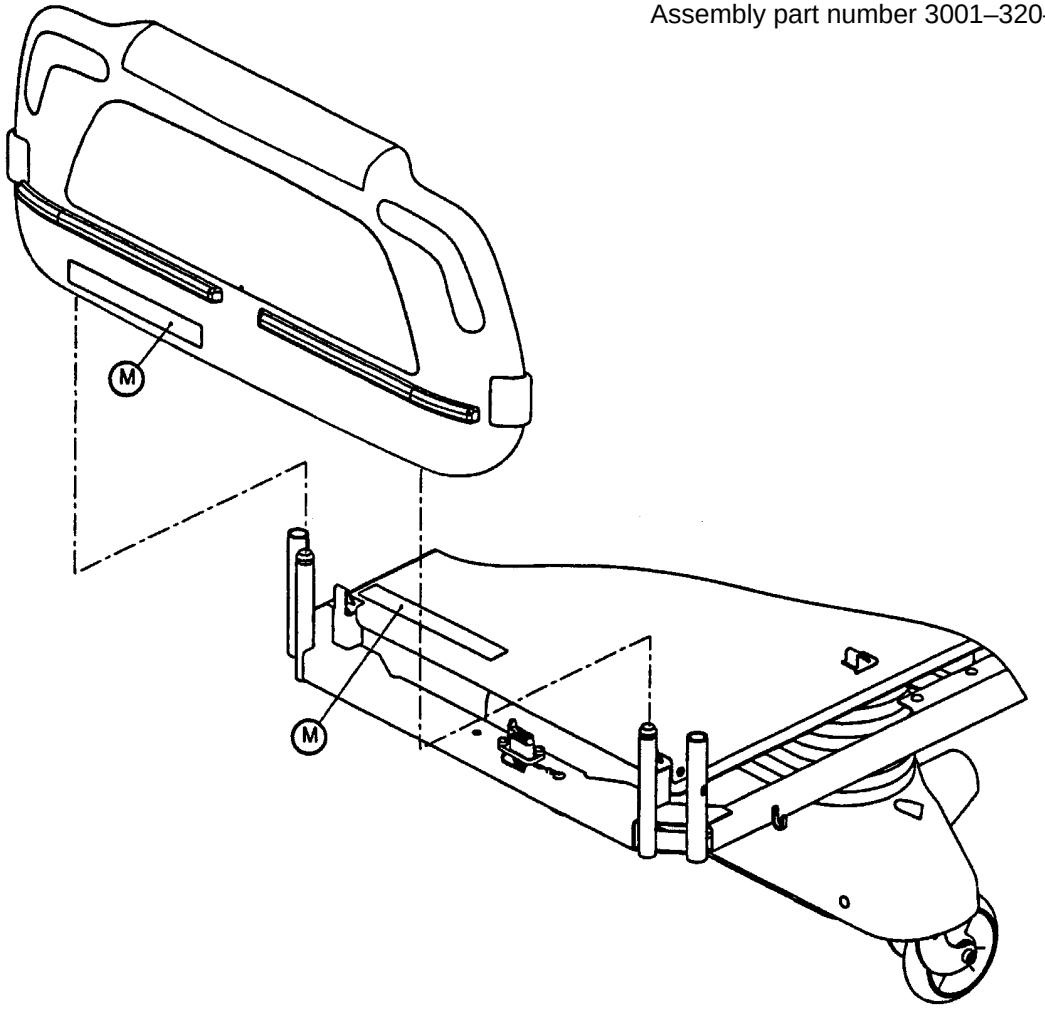
Litter Assembly, 110V Outlet Option

Assembly part number 3001–320–10



Litter Assembly, 110V Outlet Option

Assembly part number 3001–320–10

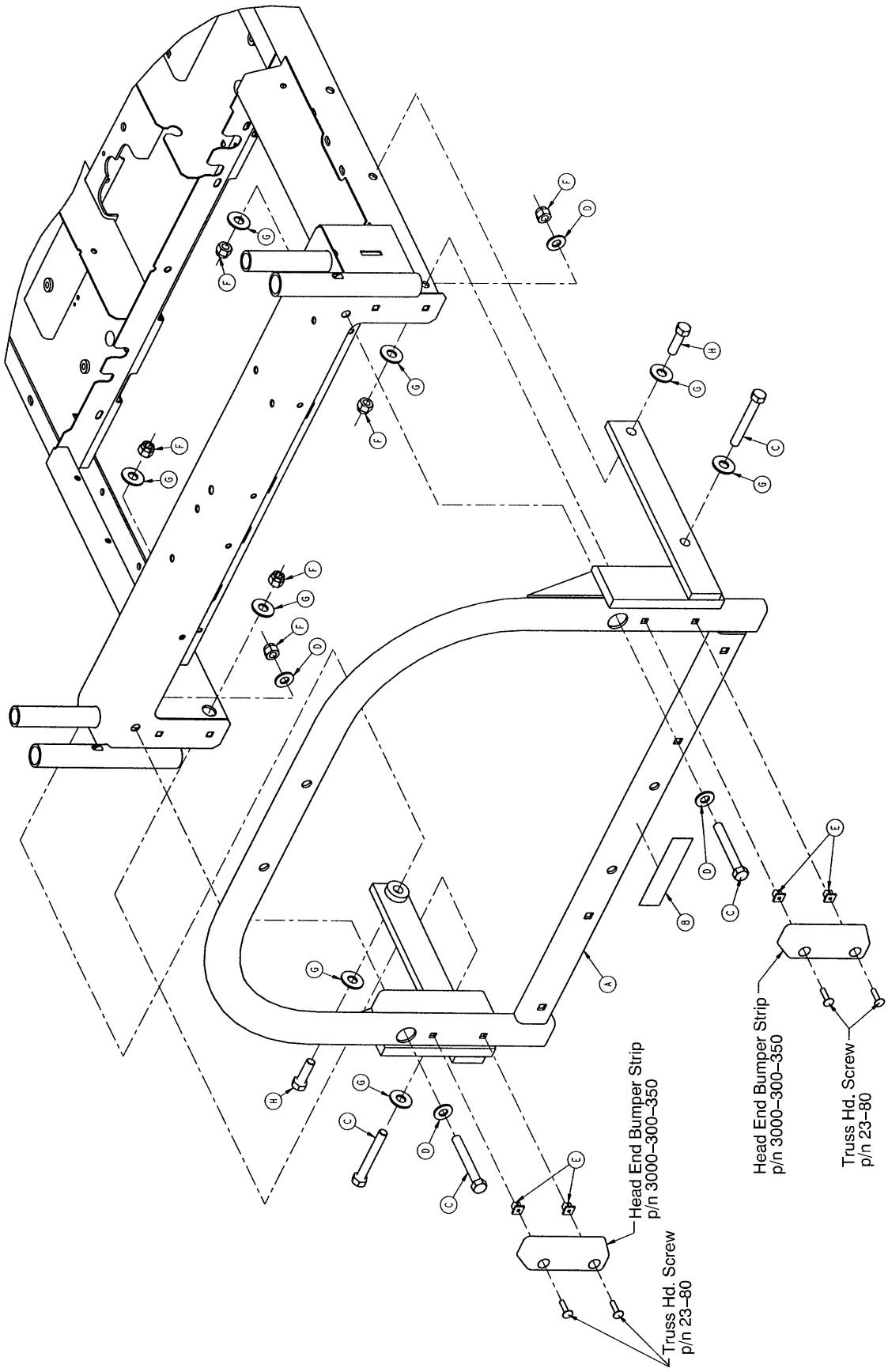


Item	Part No.	Part Name	Qty.
A	3–224	Hex Washer Hd. Screw	2
B	3000–300–113	8” Cable Tie	3
C	3001–320–20	110V Enclosure Bracket	1
D	7–28	Phillips Truss Hd. Screw	1
E	7900–1–291	Foam Tape	1
F	59–733	Hospital Grade Receptacle	1
G	34–133	Strain Relief	1
H	3001–320–801	110V Outlet Cable	1
J	59–749	Fuse Holder	1
K	59–119	5 Amp Fuse	1
L	3000–300–606	Fuse Label	1
M	3000–300–616	110V Outlet Label	2

Litter Assembly – No 110V Outlet Option

Item	Part No.	Part Name	Qty.
N	59–735	Heyco Plug	1

Litter Assembly, Accessory Adapter Frame Option

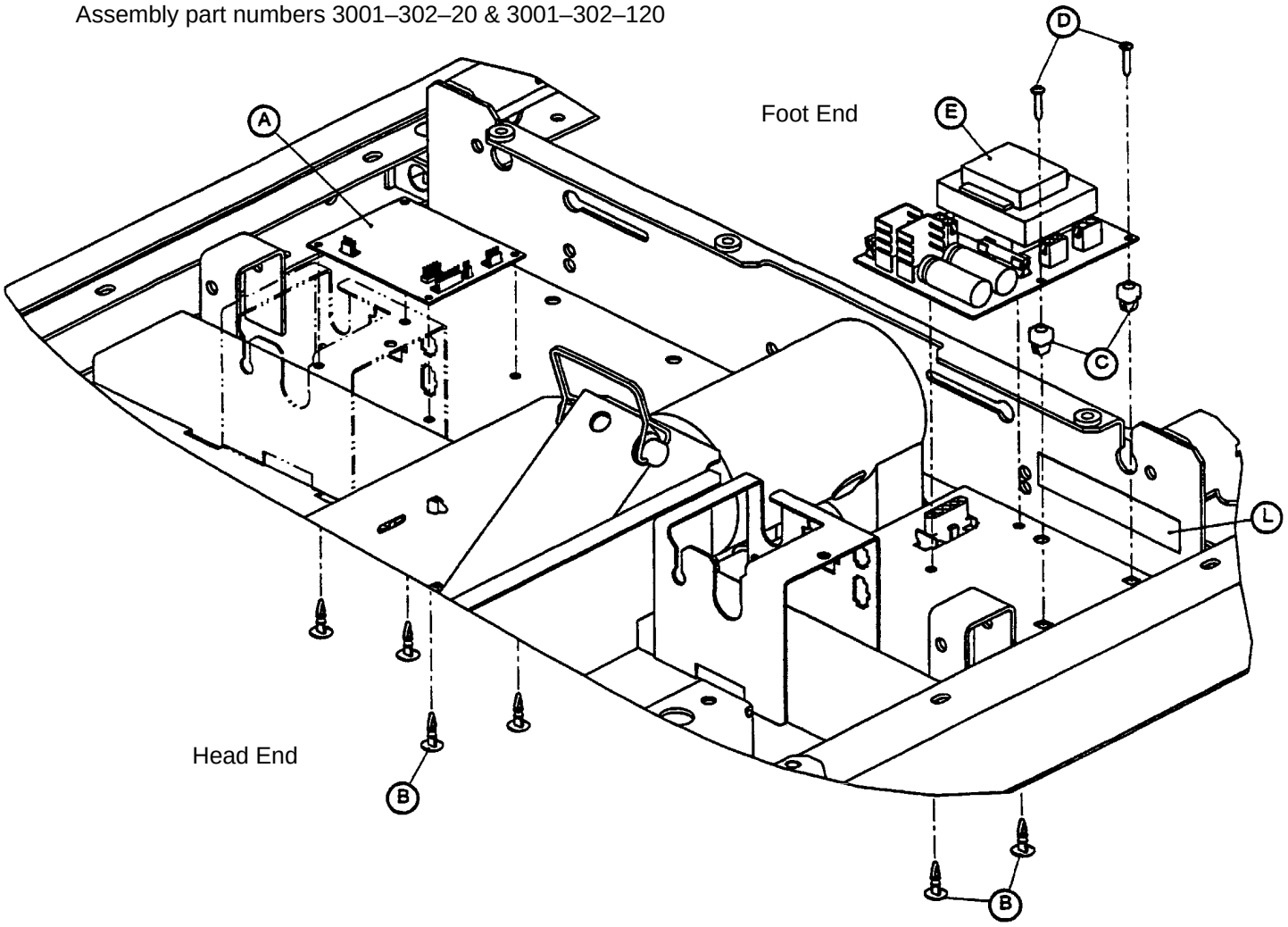


Litter Assembly, Accessory Adapter Frame Option

Item	Part No.	Part Name	Qty.
A	3001–333–10	Frame Assembly	1
B	3000–333–15	Accessory Adapter Label	1
C	3–208	Hex Hd. Cap Screw	4
D	11–301	Flat Washer	4
E	3000–300–2	Plastic Clip Nut	4
F	16–35	Nylock Nut	6
G	11–361	Flat Washer	8
H	3–120	Hex Hd. Cap Screw	2

Litter Assembly, DMS Option

Assembly part numbers 3001–302–20 & 3001–302–120



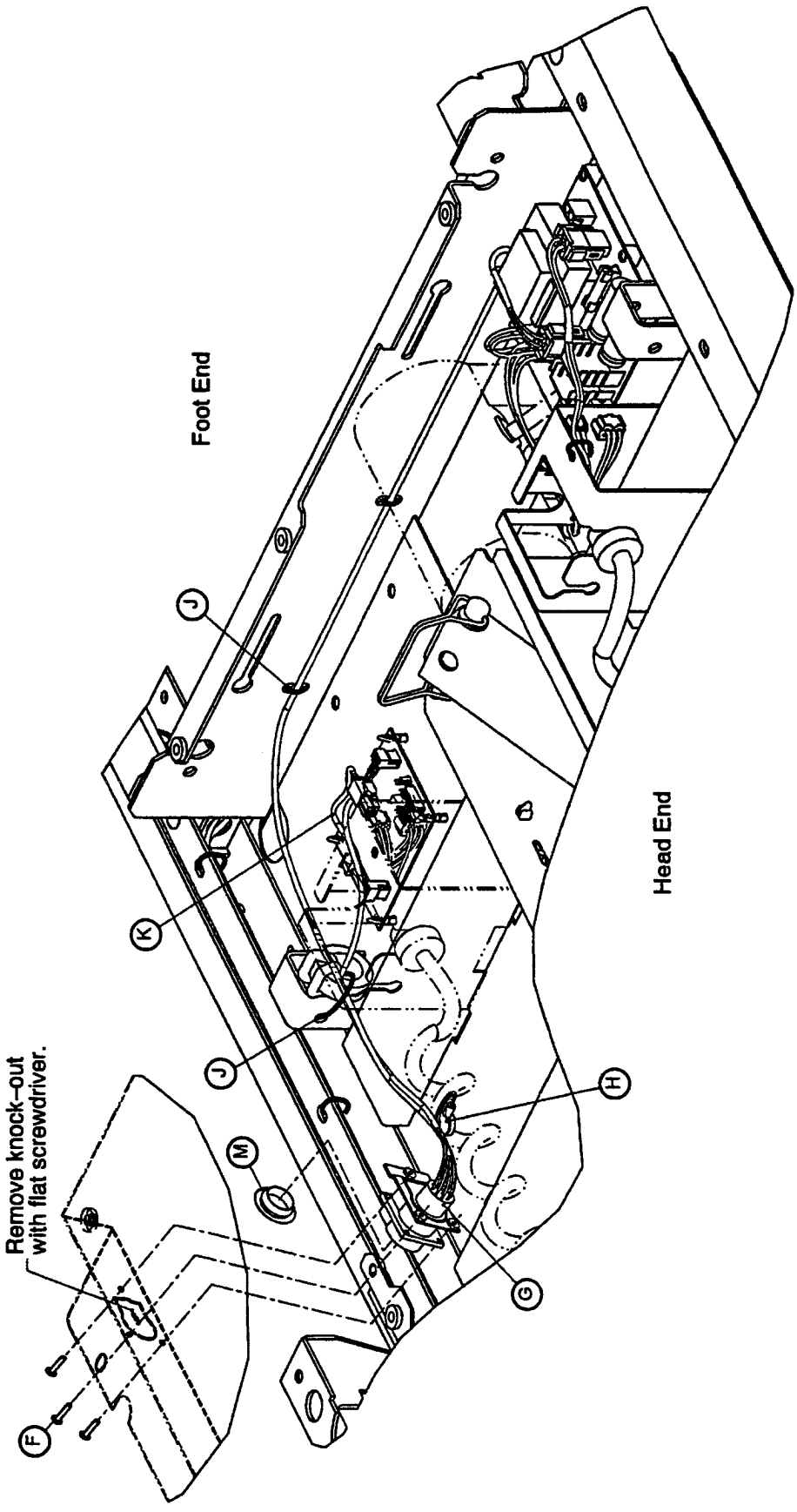
3001–302–20 Integrated DMS Assembly

Item	Part No.	Part Name	Qty.
A	3000–300–965	Serial IFC Ass'y	1
B	3000–300–115	Standoff	2
C	52–287	Grommet	2
D	23–108	Phillips Hd. Screw	2
E	3000–302–939	DMS Power Supply	1
F	7–46	Truss Hd. Screw	3
G	3001–302–802	DMS Port. Opt. Cable	1
H	7–53	Truss Hd. Screw	1
J	3000–300–113	8" Cable Tie	4
K	3001–302–801	DMS Signal Cable	1
L	2020–250–527	Warning Label	1
M	59–711	Static Plug	1

3001–302–120 Hybrid DMS Assembly

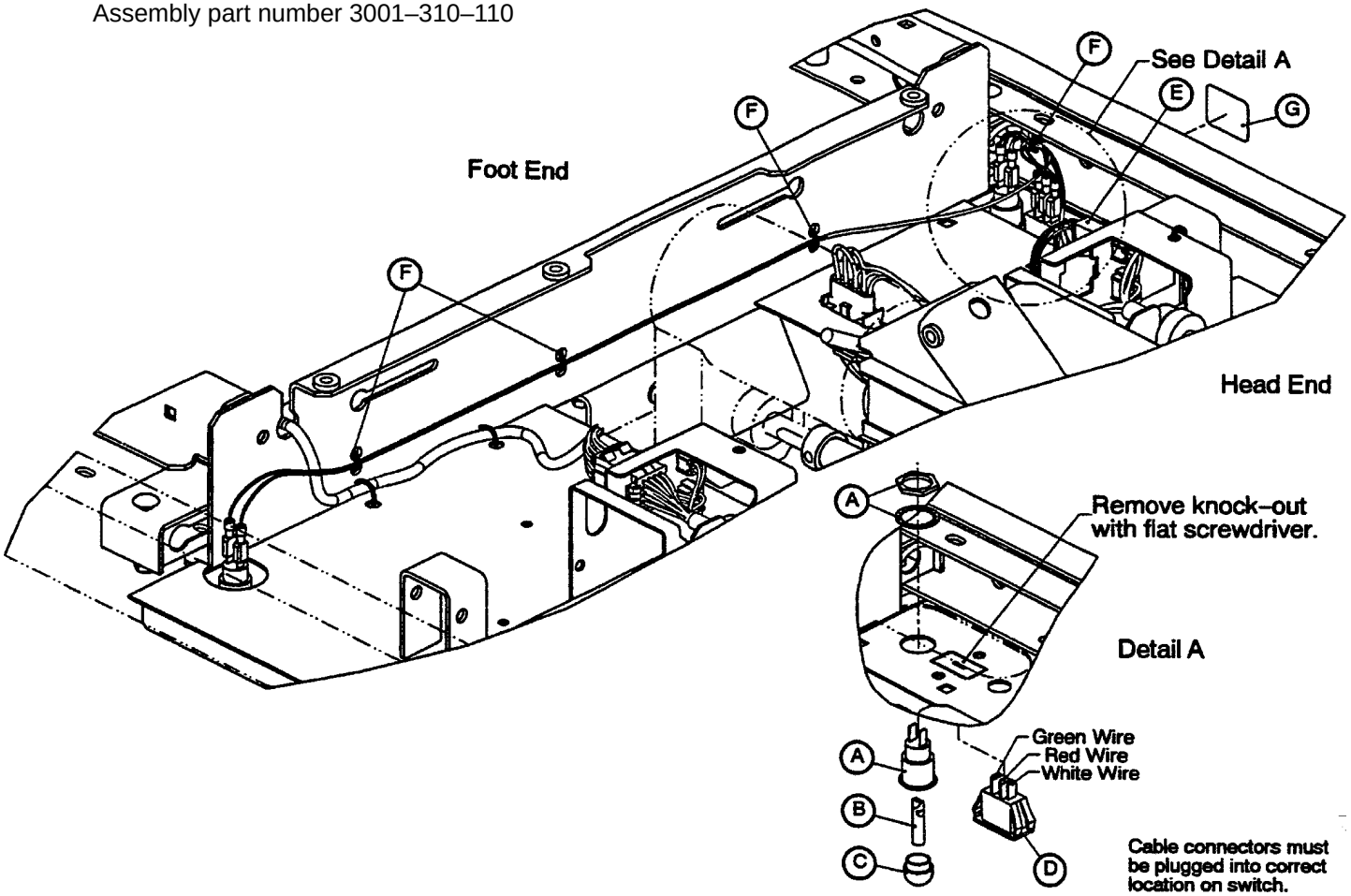
Item	Part No.	Part Name	Qty.
B	3000–300–115	Standoff	2
C	52–287	Grommet	2
D	23–108	Phillips Hd. Screw	2
E	3000–302–939	DMS Power Supply	1
F	7–46	Truss Hd. Screw	3
G	3001–302–802	DMS Port. Opt. Cable	1
H	7–53	Truss Hd. Screw	1
J	3000–300–113	8" Cable Tie	4
L	2020–250–527	Warning Label	1
M	59–711	Static Plug	1

Litter Assembly, DMS Option



Litter Assembly, Night Light Option

Assembly part number 3001–310–110

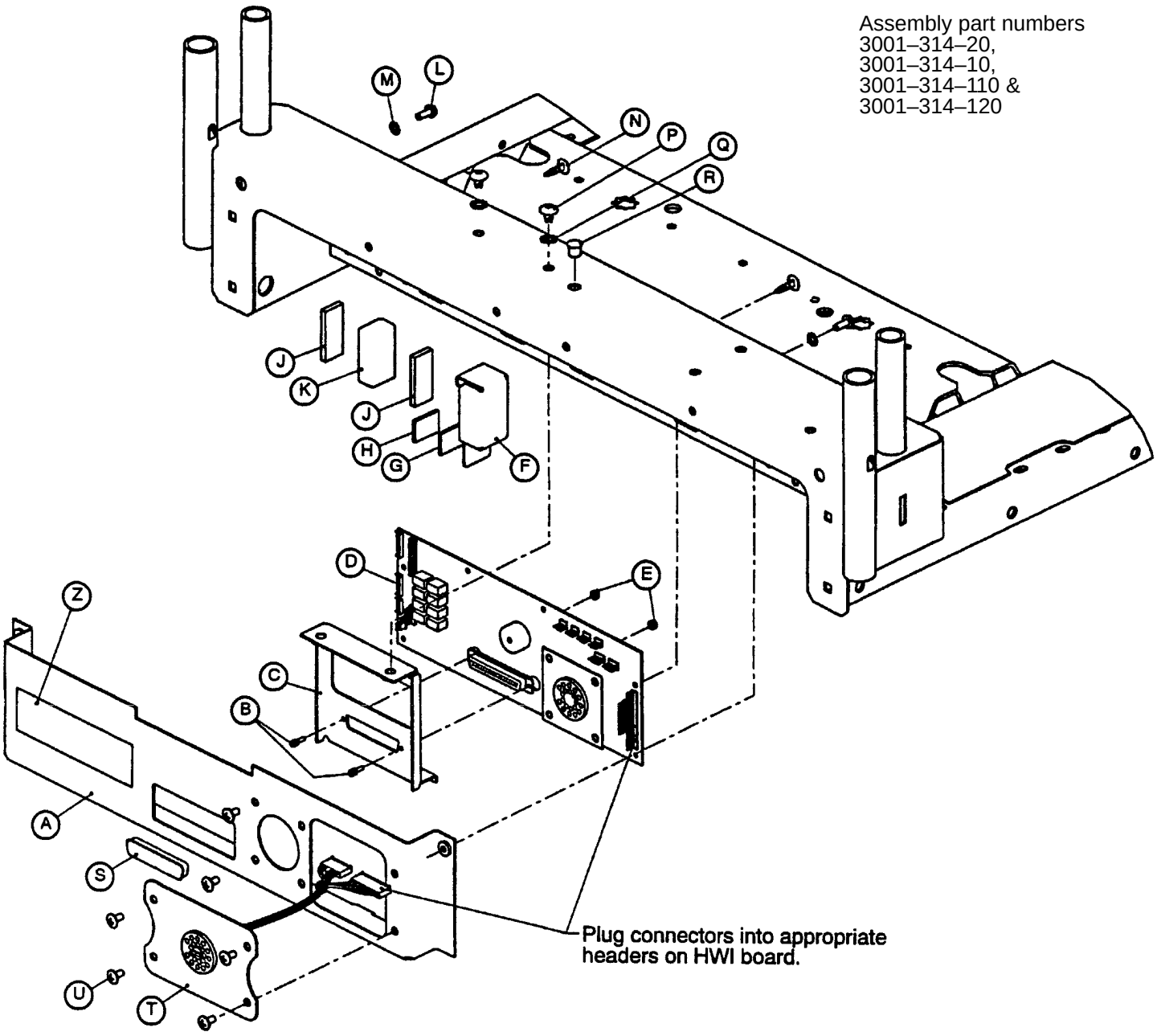


Item	Part No.	Part Name	Qty.
A	3000–310–827	Night Light Socket	2*
B	59–798	Night Light Lamp	2*
C	3000–310–826	Night Light Dome	2*
D	3000–310–828	Night Light Switch	1
E	3001–310–801	Night Light Cable	1
F	3000–300–113	8” Cable Tie	4
G	3000–300–617	Night Light Label	1

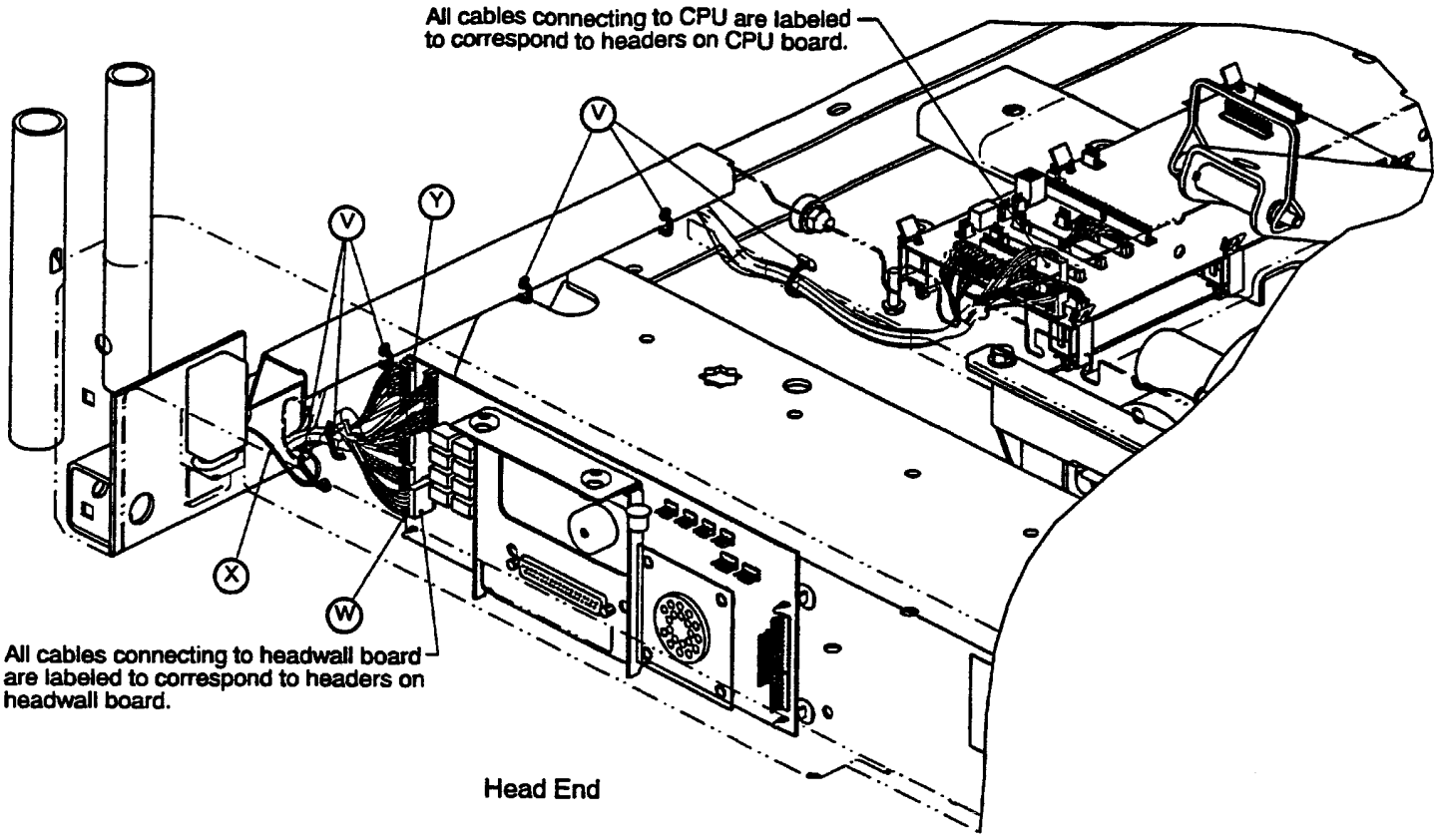
*The combination of one each of items A, B, and C is assembly part number 3001–310–830.

Litter Ass'y, HWI w/Communication and Ports Option

Assembly part numbers
3001–314–20,
3001–314–10,
3001–314–110 &
3001–314–120



Litter Ass'y, HWI w/Communication and Ports Option



Litter Ass’y, HWI w/Communication and Ports Option

3001–314–20 HWI w/2 Stryker Ports

Item	Part No.	Part Name	Qty.
A	3001–340–41	Enclosure, HWI w/Cust. Port	1
B	59–727	Jack Screw	2
C	3001–303–11	HWI PCB Bracket	1
D	3001–314–900	HWI PCB w/Stryker Port	1
E	16–7	Fiberlock Nut	2
F	3001–303–12	Enclosure, Battery	1
G	29–10	Fine Dual Lock	1
H	29–8	Coarse Dual Lock	1
J	7900–1–291	Foam Tape	2
K	3000–303–871	Battery	1
L	3–224	Hex Washer Hd. Screw	2
M	13–18	External Tooth Lock Washer	2
N	3000–300–115	Standoff	4
P	7–53	Truss Hd. Screw	2
Q	13–10	External Tooth Lock Washer	2
R	59–738	Dome Plug	1
S	59–710	Static Plug	1
T	3001–314–802	Port Cable Assembly	1
U	7–19	Truss Hd. Screw	6
V	3000–300–113	8” Cable Tie	6
W	3001–303–800	HWI to CPU Cable	1
X	3001–303–801	Battery Cable	1
Y	3001–314–801	Pendant Port Cable	1
Z	1550–90–1	Caution Label	1

3001–314–120 HWI w/1 Stryker & 1 Custom Port

Item	Part No.	Part Name	Qty.
A	3001–340–41	Enclosure, HWI w/Cust. Port	1
B	59–727	Jack Screw	2
C	3001–303–11	HWI PCB Bracket	1
D	3001–314–900	HWI PCB w/Stryker Port	1
E	16–7	Fiberlock Nut	2
F	3001–303–12	Enclosure, Battery	1
G	29–10	Fine Dual Lock	1
H	29–8	Coarse Dual Lock	1
J	7900–1–291	Foam Tape	2
K	3000–303–871	Battery	1
L	3–224	Hex Washer Hd. Screw	2
M	13–18	External Tooth Lock Washer	2
N	3000–300–115	Standoff	4
P	7–53	Truss Hd. Screw	2
Q	13–10	External Tooth Lock Washer	2
R	59–738	Dome Plug	1
S	59–710	Static Plug	1
T	3001–314–899	Custom Port Cable Ass’y	1
U	7–19	Truss Hd. Screw	6
V	3000–300–113	8” Cable Tie	6
W	3001–303–800	HWI to CPU Cable	1
X	3001–303–801	Battery Cable	1
Y	3001–314–801	Pendant Port Cable	1
Z	1550–90–1	Caution Label	1

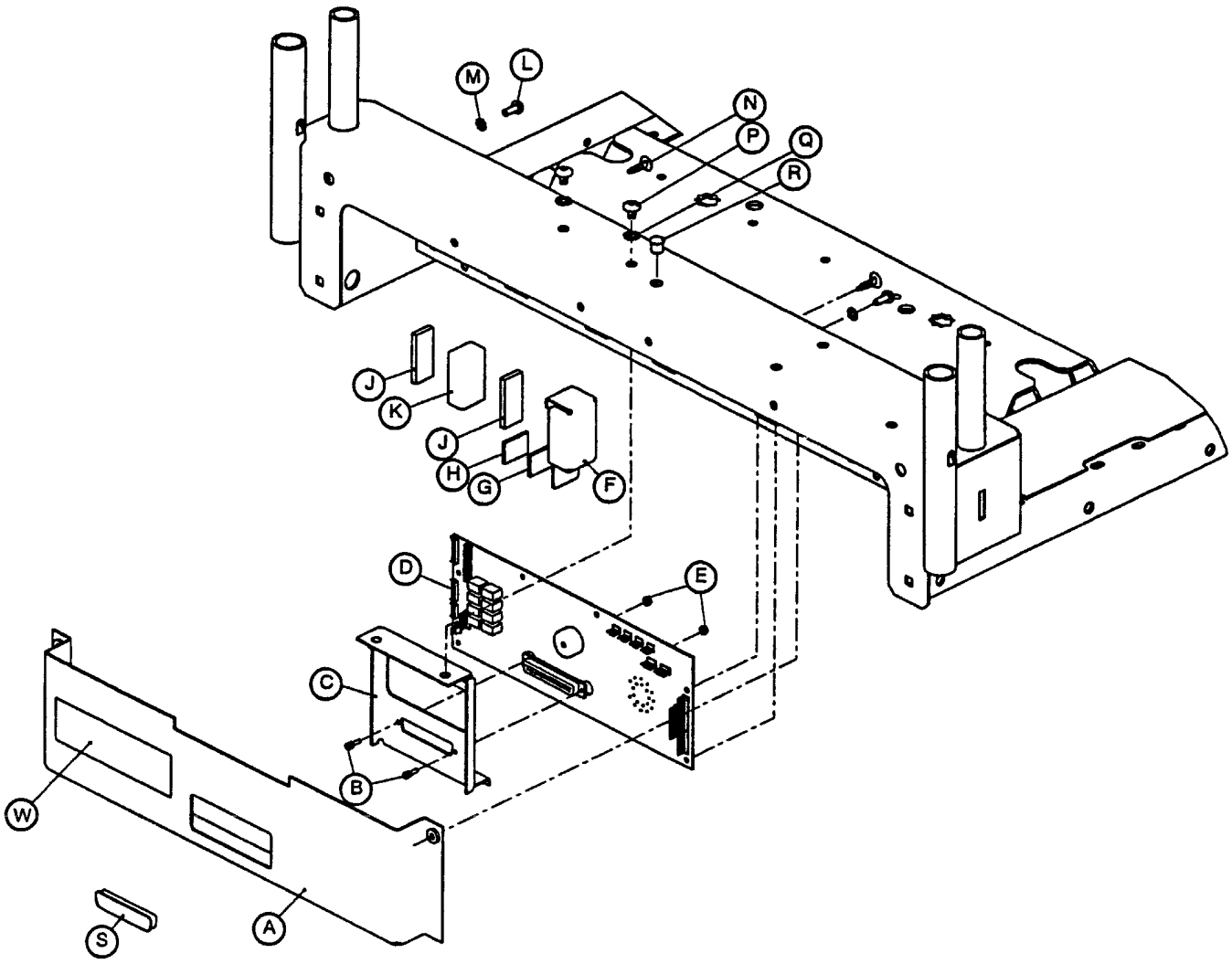
3001–314–10 HWI w/1 Stryker Port

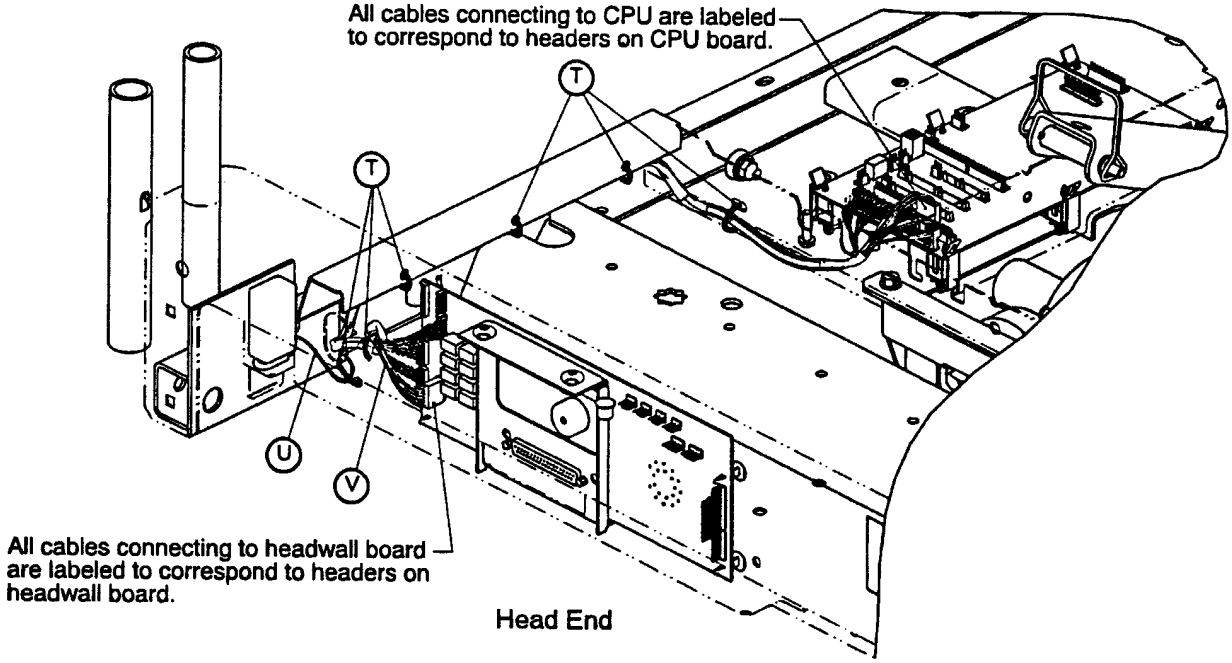
Item	Part No.	Part Name	Qty.
A	3001–340–31	Enclosure, HWI w/Std. Port	1
B	59–727	Jack Screw	2
C	3001–303–11	HWI PCB Bracket	1
D	3001–314–900	HWI PCB w/Stryker Port	1
E	16–7	Fiberlock Nut	2
F	3001–303–12	Enclosure, Battery	1
G	29–10	Fine Dual Lock	1
H	29–8	Coarse Dual Lock	1
J	7900–1–291	Foam Tape	2
K	3000–303–871	Battery	1
L	3–224	Hex Washer Hd. Screw	2
M	13–18	External Tooth Lock Washer	2
N	3000–300–115	Standoff	4
P	7–53	Truss Hd. Screw	2
Q	13–10	External Tooth Lock Washer	2
R	59–738	Dome Plug	1
S	59–710	Static Plug	1
U	7–19	Truss Hd. Screw	6
V	3000–300–113	8” Cable Tie	6
W	3001–303–800	HWI to CPU Cable	1
X	3001–303–801	Battery Cable	1
Y	3001–314–801	Pendant Port Cable	1
Z	1550–90–1	Caution Label	1

3001–314–110 HWI w/1 Custom Port

Item	Part No.	Part Name	Qty.
A	3001–340–51	Enclosure, HWI w/Cust. Port	1
B	59–727	Jack Screw	2
C	3001–303–11	HWI PCB Bracket	1
D	3001–303–900	HWI PCB	1
E	16–7	Fiberlock Nut	2
F	3001–303–12	Enclosure, Battery	1
G	29–10	Fine Dual Lock	1
H	29–8	Coarse Dual Lock	1
J	7900–1–291	Foam Tape	2
K	3000–303–871	Battery	1
L	3–224	Hex Washer Hd. Screw	2
M	13–18	External Tooth Lock Washer	2
N	3000–300–115	Standoff	4
P	7–53	Truss Hd. Screw	2
Q	13–10	External Tooth Lock Washer	2
R	59–738	Dome Plug	1
S	59–710	Static Plug	1
T	3001–314–899	Custom Port Cable Ass’y	1
U	7–19	Truss Hd. Screw	6
V	3000–300–113	8” Cable Tie	6
W	3001–303–800	HWI to CPU Cable	1
X	3001–303–801	Battery Cable	1
Y	3001–314–801	Pendant Port Cable	1
Z	1550–90–1	Caution Label	1

Litter Ass'y, HWI Communication Capability Option





Litter Ass’y, HWI Communication Capability Option

3001–303–50 Nurse Call & Comm. Assembly

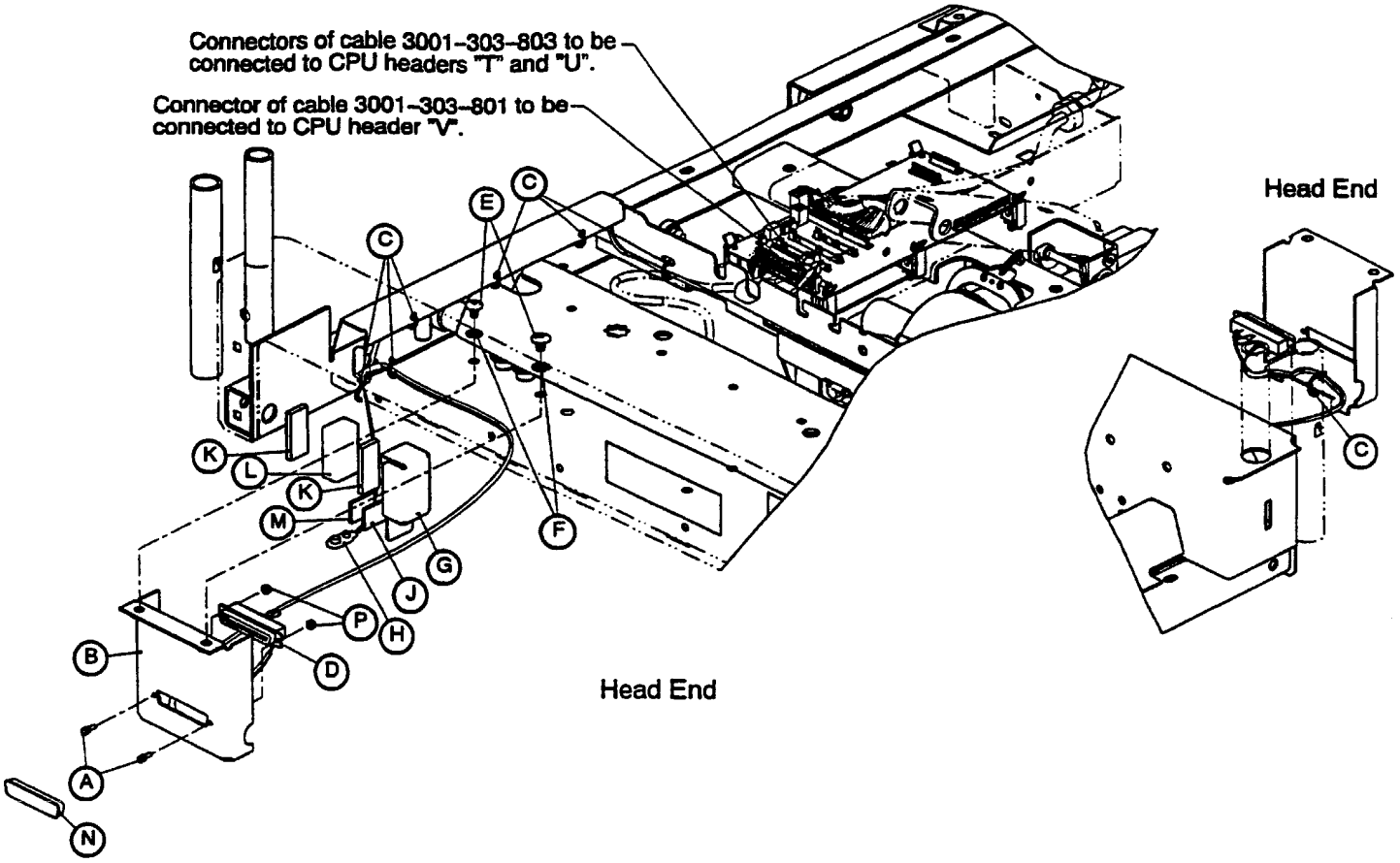
Item	Part No.	Part Name	Qty.
A	3001–303–821	Headwall Interface Cable	1
B	59–727	Jack Screw	2
C	3001–303–11	HWI PCB Bracket	1
D	3001–303–900	HWI PCB Assembly	1
E	16–7	Fiberlock Nut	2
F	3001–303–12	Battery Enclosure	1
G	7900–1–159	Fine Dual Lock	1
H	7900–1–160	Coarse Dual Lock	1
J	7900–1–291	Foam Tape	2
K	3000–303–871	Battery	1
L	3–124	Hex Washer Hd. Screw	2
M	13–18	Ext. Tooth Lock Washer	2
N	3000–300–115	Standoff	4
P	7–53	Truss Hd. Screw	2
Q	13–10	Ext. Tooth Lock Washer	2
R	59–738	Dome Plug	1
S	59–710	Static Plug	1
T	3000–300–113	Cable Tie	6
U	3001–303–801	Battery Cable	1
V	3001–303–800	HWI to CPU Cable	1
W	1550–90–1	Caution Label	1

3001–303–120 Communication Assembly

Item	Part No.	Part Name	Qty.
A	3001–303–821	Headwall Interface Cable	1
B	59–727	Jack Screw	2
C	3001–303–11	HWI PCB Bracket	1
D	3001–303–900	HWI PCB Assembly	1
E	16–7	Fiberlock Nut	2
L	3–124	Hex Washer Hd. Screw	2
M	13–18	Ext. Tooth Lock Washer	2
N	3000–300–115	Standoff	4
P	7–53	Truss Hd. Screw	2
Q	13–10	Ext. Tooth Lock Washer	2
R	59–738	Dome Plug	1
S	59–710	Static Plug	1
T	3000–300–113	Cable Tie	5
V	3001–303–800	HWI to CPU Cable	1
W	1550–90–1	Caution Label	1

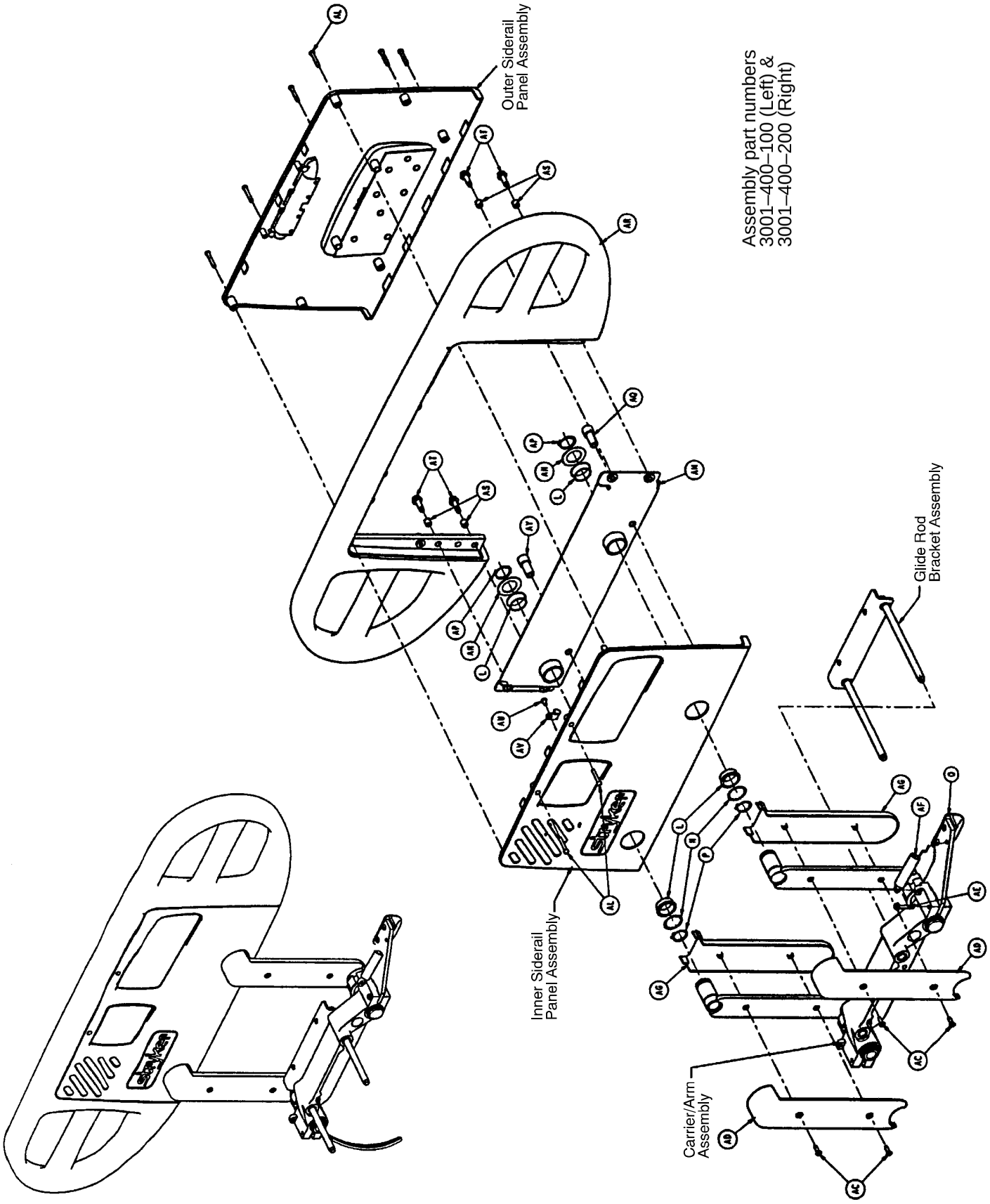
Litter Ass'y, HWI Nurse Call Option

Assembly part number 3001–303–110

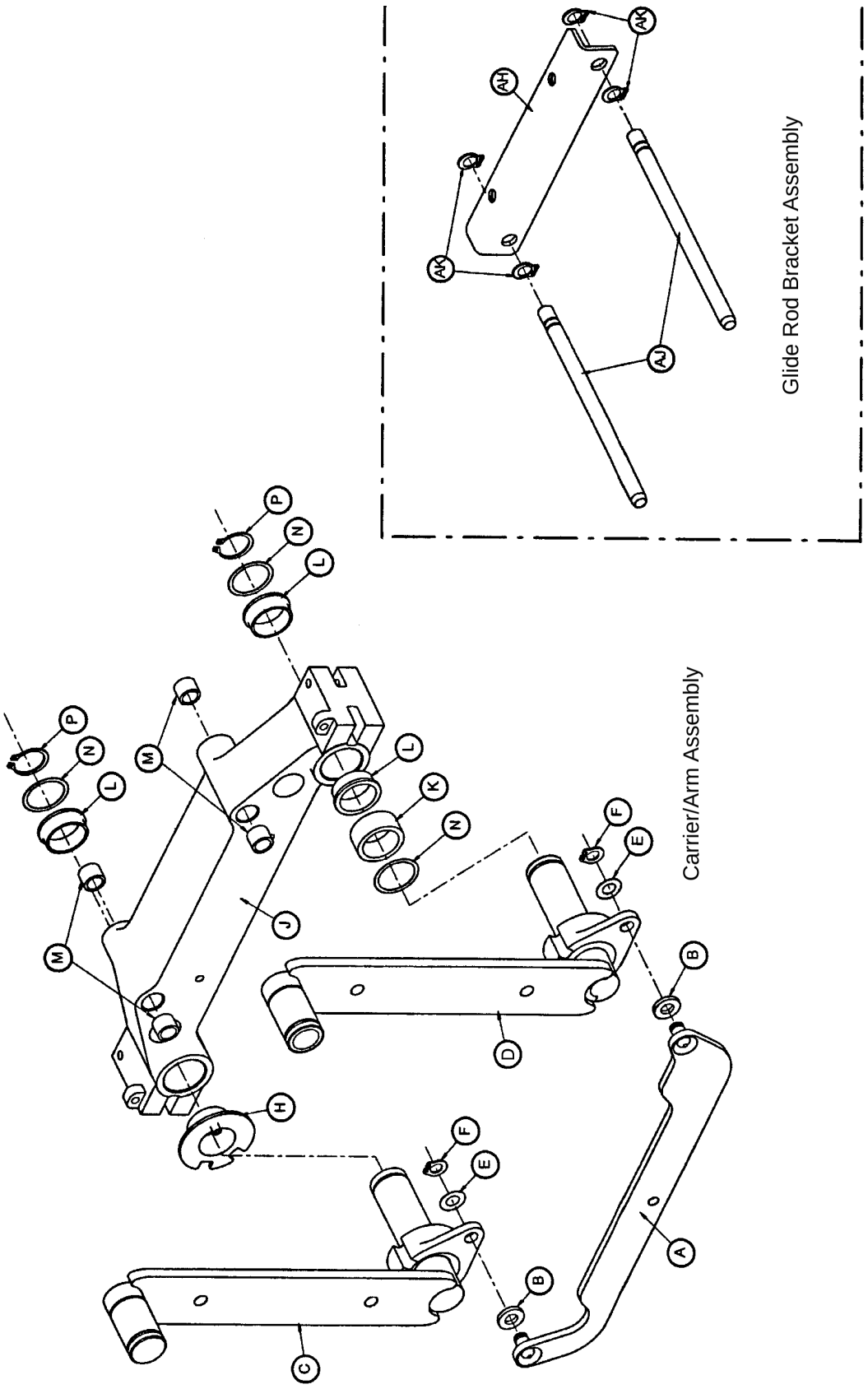


Item	Part No.	Part Name	Qty.
A	59–727	Jack Screw	2
B	3001–303–16	Enclosure, HWI Nurse Call Only	1
C	3000–303–113	8" Cable Tie	7
D	3001–303–803	Cable, HWI Nurse Call Only	1
E	7–53	Truss Hd. Screw	2
F	13–10	External Tooth Lock Washer	2
G	3001–303–12	Battery Enclosure	1
H	3001–303–801	Battery Cable	1
J	7900–1–159	Fine Dual Lock	1
K	7900–1–291	Foam Tape	2
L	3000–303–871	Battery	1
M	7900–1–160	Coarse Dual Lock	1
N	59–710	Static Plug	1
P	16–7	Fiberlock Nut	2

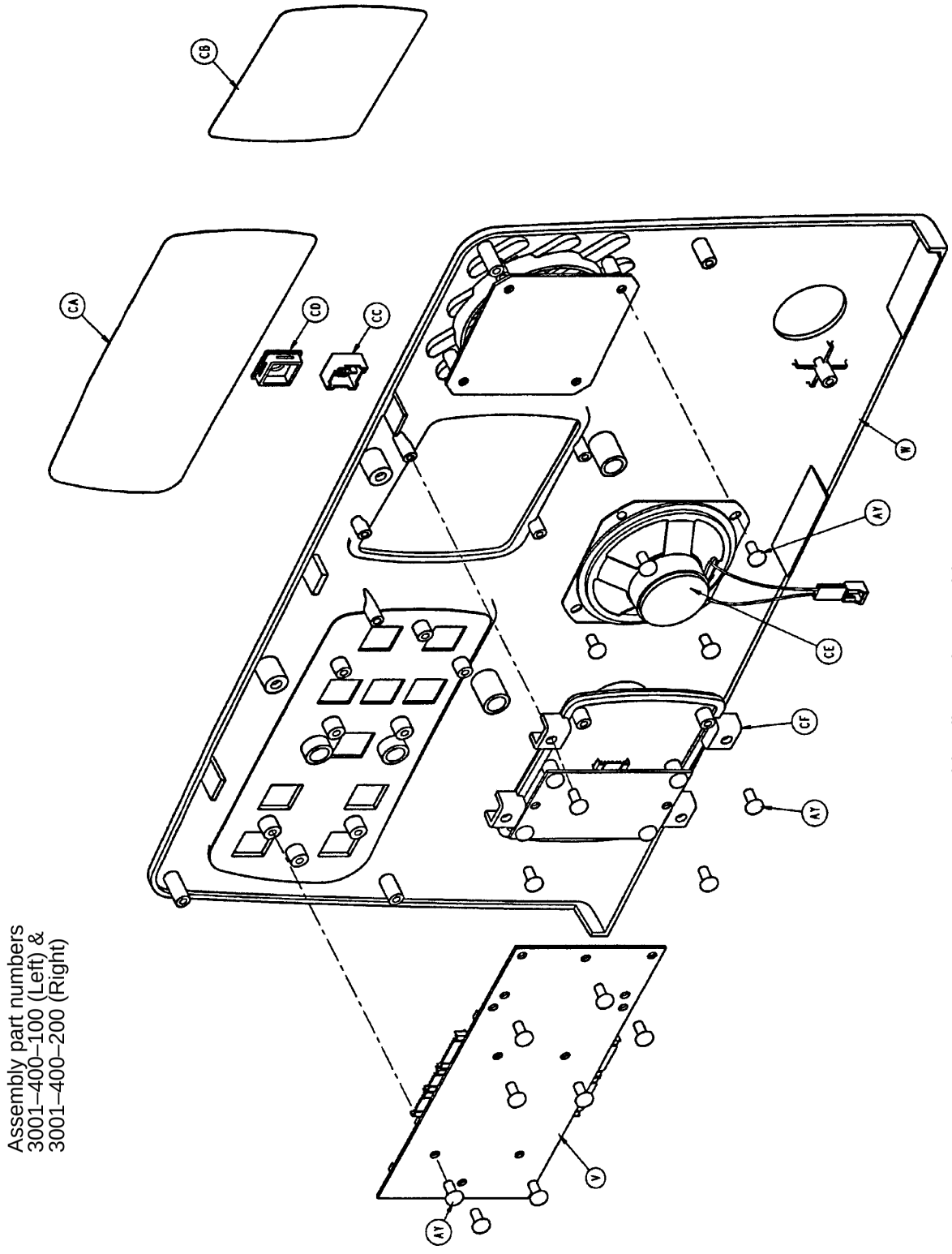
Head End Siderail Assembly



Head End Siderail Assembly



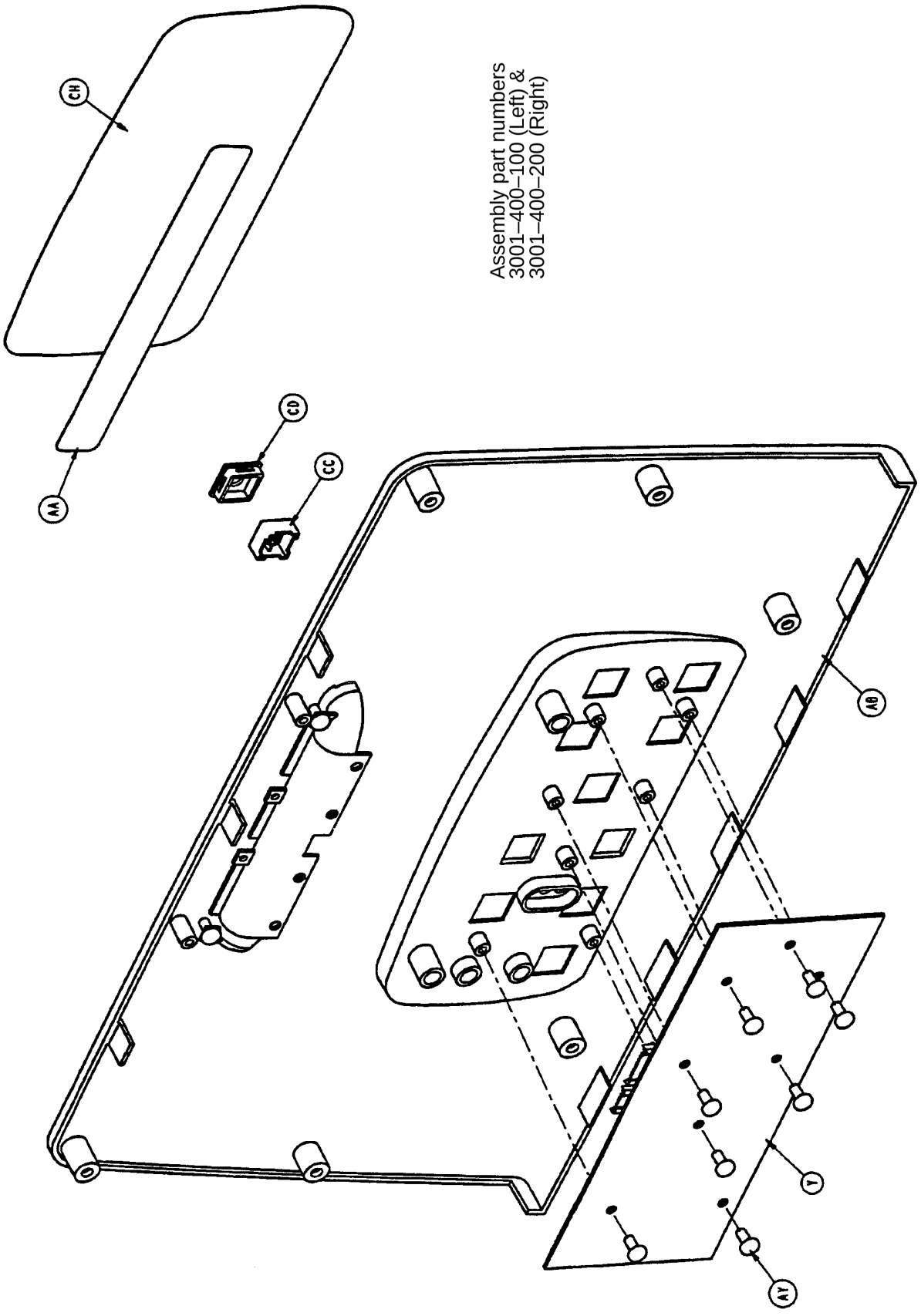
Head End Siderail Assembly



Assembly part numbers
3001–400–100 (Left) &
3001–400–200 (Right)

Inner Siderail Panel Assembly

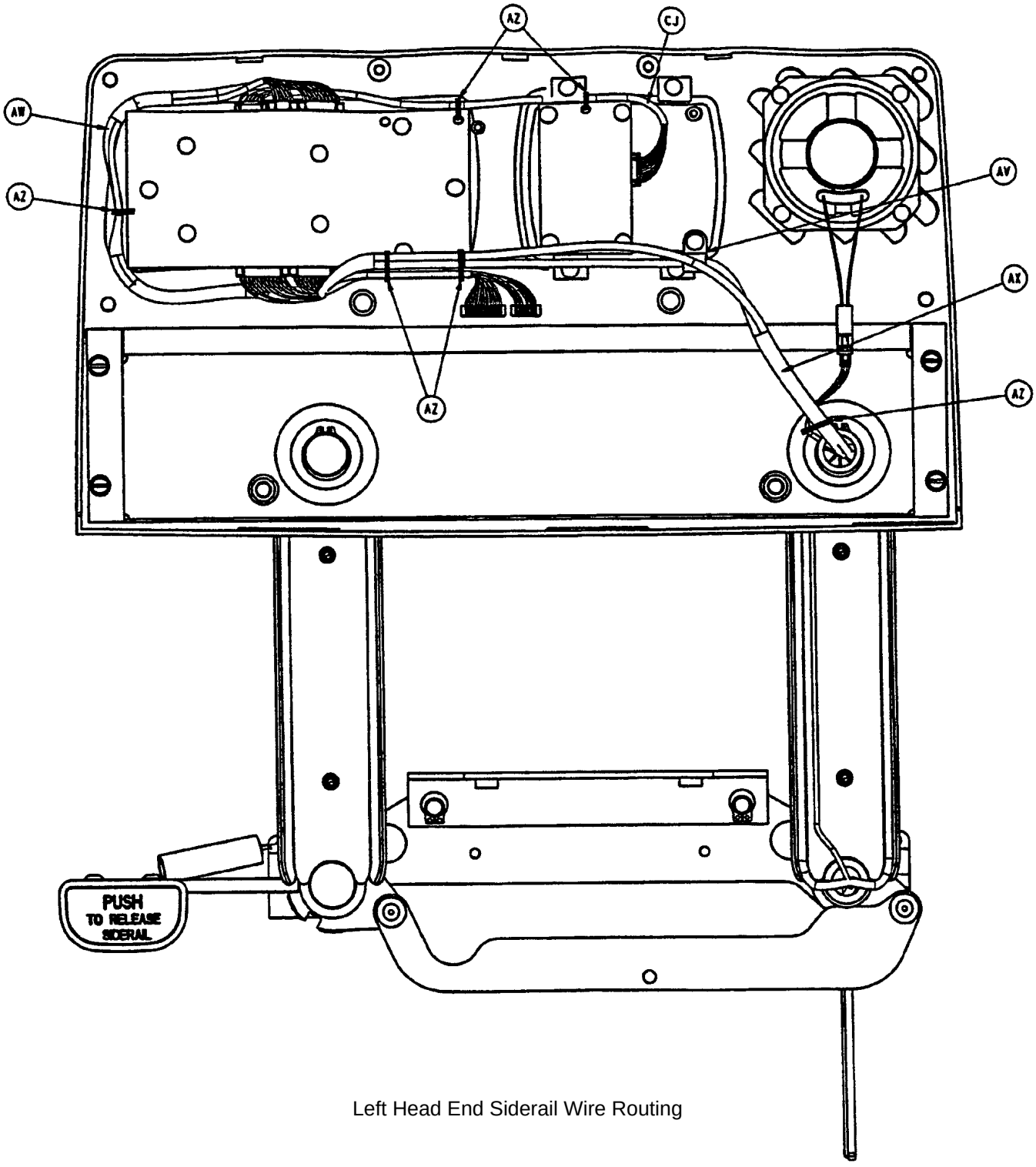
Head End Siderail Assembly



Assembly part numbers
3001–400–100 (Left) &
3001–400–200 (Right)

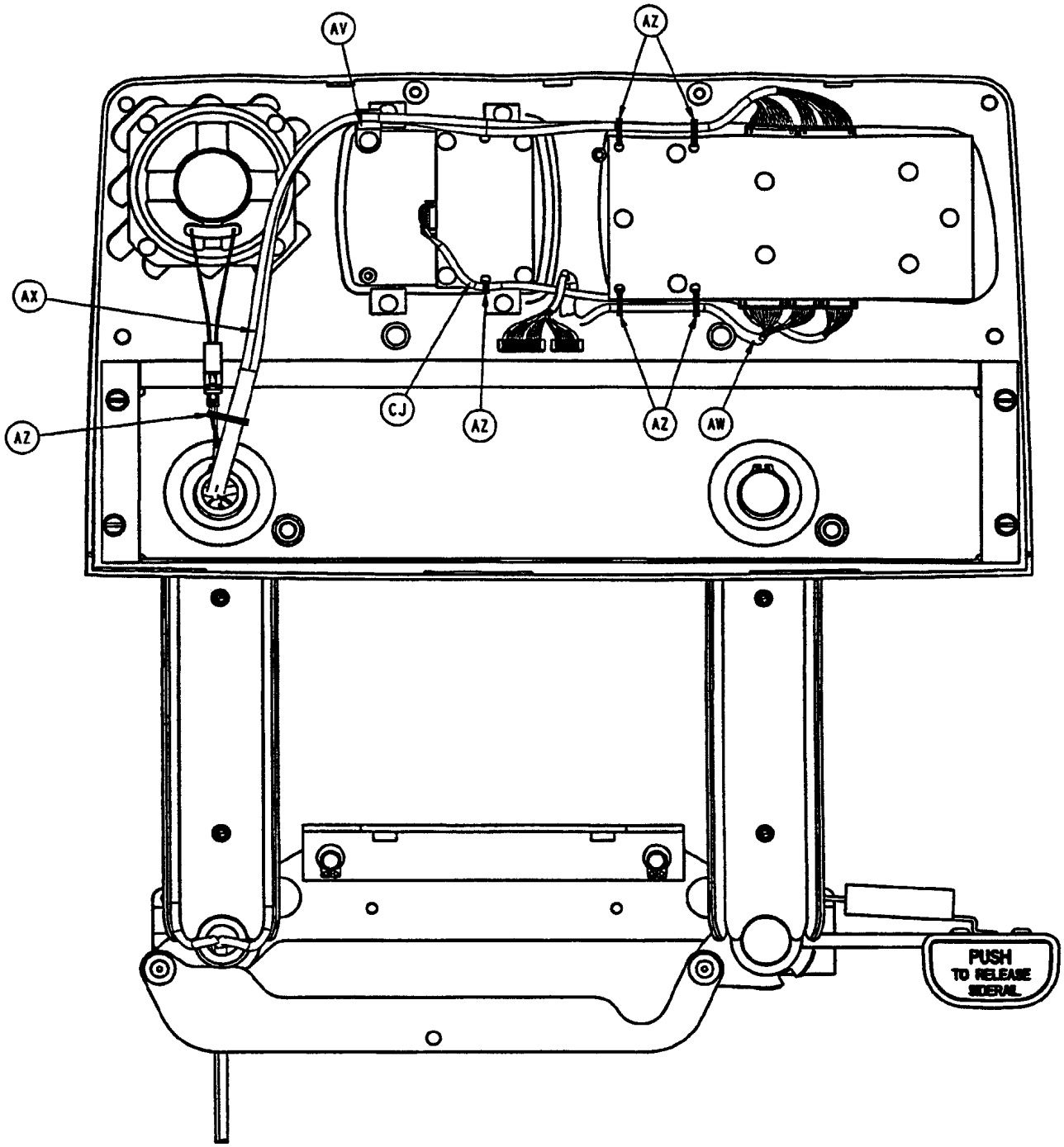
Outer Siderail Panel Assembly

Head End Siderail Assembly



Left Head End Siderail Wire Routing

Head End Siderail Assembly



Right Head End Siderail Wire Routing

Head End Siderail Assembly

3001–400–100 Left Standard Components

Item	Part No.	Part Name	Qty.
A	3001–400–120	Timing Link Weldment, Lt.	1
B	11–304	Shim Washer	2
C	3001–400–127	Arm Weldment, Left, Foot	1
D	3001–400–128	Arm Weldment, Left, Head	1
E	11–377	Nylon Washer	2
F	28–127	Retaining Ring	2
H	3001–400–513	Wear Bushing	4
J	3001–400–508	Siderail Carrier	1
L	3000–400–513	Flange Bearing	7
M	3000–400–557	Sleeve Bearing	4
N	11–353	Shim Washer	3
P	28–128	Retaining Ring	4
Q	3001–400–550	Release Lever	1
R	3001–400–514	Release Lever Pad	1
S	16–2	Nylock Nut	2
T	4–278	Button Hd. Cap Screw	2
U	3001–400–505	Pad Label	1
V	3001–400–900	Main PCB Assembly	1
W	3001–400–101	Inner Panel, Left	1
Y	3001–400–910	Outside PCB Assembly	1
AA	3000–400–556	Warning Label	1
AB	3001–400–50	Outer Panel Ass'y	1
AC	23–252	Self–Tapping Screw	4
AD	3001–400–518	Inner Arm Cover	2
AE	3–122	Hex Washer Hd. Screw	1
AF	3000–200–334	Extension Spring	1
AG	3001–400–519	Outer Arm Cover	2
AH	3001–400–543	Mounting Bracket	1
AJ	3001–400–544	Glide Rod	2
AK	28–126	Retaining Ring	4
AL	23–90	High–Low Tapping Screw	8
AM	3001–400–130	Supt. Weldment, Hd., Lt.	1
AN	11–343	Shim Washer	2
AP	28–132	Bowed Retaining Ring	2
AQ	3000–400–523	Panel Spacer	2
AR	3001–400–515	Head Rail	1
AS	3001–400–558	Siderail Spacer	4
AT	3–226	Hex Washer Hd. Screw	4
AU	23–86	High–Low Tapping Screw	1
AV	3000–300–478	CPR Conduit Clamp	1
AW	3001–400–802	Main Outside Cable, Lt.	1
AX	3001–300–803	Siderail Harness, Lt.	1
AY	23–112	High–Low Tapping Screw	20
AZ	3000–300–114	4" Cable Tie	4

3001–400–200 Right Standard Components

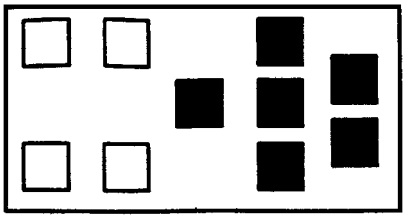
Item	Part No.	Part Name	Qty.
A	3001–400–220	Timing Link Weldment, Rt.	1
B	11–304	Shim Washer	2
C	3001–400–227	Arm Weldment, Right, Hd.	1
D	3001–400–228	Arm Weldment, RIght, Ft.	1
E	11–377	Nylon Washer	2
F	28–127	Retaining Ring	2
H	3001–400–513	Wear Bushing	4
J	3001–400–508	Siderail Carrier	1
L	3000–400–513	Flange Bearing	7
M	3000–400–557	Sleeve Bearing	4
N	11–353	Shim Washer	3
P	28–128	Retaining Ring	4
Q	3001–400–550	Release Lever	1
R	3001–400–514	Release Lever Pad	1
S	16–2	Nylock Nut	2
T	4–278	Button Hd. Cap Screw	2
U	3001–400–505	Pad Label	1
V	3001–400–900	Main PCB Assembly	1
W	3001–400–201	Inner Panel, Right	1
Y	3001–400–910	Outside PCB Assembly	1
AA	3000–400–556	Warning Label	1
AB	3001–400–50	Outer Panel Ass'y	1
AC	23–252	Self–Tapping Screw	4
AD	3001–400–518	Inner Arm Cover	2
AE	3–122	Hex Washer Hd. Screw	1
AF	3000–200–334	Extension Spring	1
AG	3001–400–519	Outer Arm Cover	2
AH	3001–400–543	Mounting Bracket	1
AJ	3001–400–544	Glide Rod	2
AK	28–126	Retaining Ring	4
AL	23–90	High–Low Tapping Screw	8
AM	3001–400–230	Supt. Weldment, Hd., Rt.	1
AN	11–343	Shim Washer	2
AP	28–132	Bowed Retaining Ring	2
AQ	3000–400–523	Panel Spacer	2
AR	3001–400–515	Head Rail	1
AS	3001–400–558	Siderail Spacer	4
AT	3–226	Hex Washer Hd. Screw	4
AU	23–86	High–Low Tapping Screw	1
AV	3000–300–478	CPR Conduit Clamp	1
AW	3001–400–801	Main Outside Cable, Rt.	1
AX	3001–300–802	Siderail Harness, Rt.	1
AY	23–112	High–Low Tapping Screw	20
AZ	3000–300–114	4" Cable Tie	5

Head End Siderail Assembly

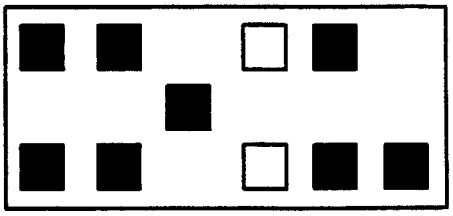
3001–999–1 Standard Siderail

Item	Part No.	Part Name	Qty.
CA	3001–400–620	Standard Label, Inner, Left	1
CA	3001–400–610	Standard Label, Inner, Right	1
CC	3001–400–953	Switch Cap	12
CD	3001–400–522	Filler Cap	28
CE	3001–400–517	Speaker Seal	2
CF	3001–400–535	Blank Module	2
CH	3001–400–630	Standard Label, Outer, Left	1
CH	3001–400–640	Standard Label, Outer, Right	1

Inner PCB Switch/Cap Placement



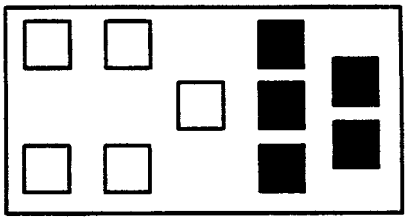
Outer PCB Switch/Cap Placement



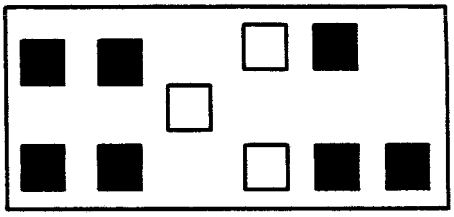
3001–999–2 Standard Siderail w/Nurse Call Only

Item	Part No.	Part Name	Qty.
CA	3001–400–621	Nurse Call Label, Inner, Left	1
CA	3001–400–611	Nurse Call Label, Inner, Right	1
CC	3001–400–953	Switch Cap	16
CD	3001–400–522	Filler Cap	24
CE	3001–403–831	Speaker With Cable	2
CF	3001–400–535	Blank Module	2
CH	3001–400–631	Nurse Call Label, Outer, Left	1
CH	3001–400–641	Nurse Call Label, Outer, Right	1

Inner PCB Switch/Cap Placement



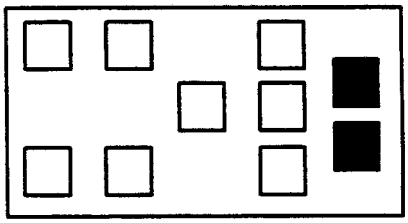
Outer PCB Switch/Cap Placement



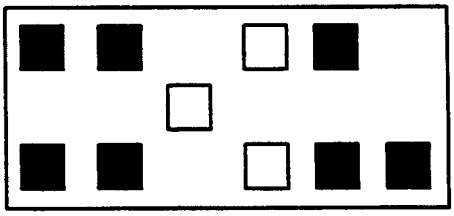
3001–999–3 Standard Siderail w/Nurse Call & TV/Radio

Item	Part No.	Part Name	Qty.
CA	3001–400–626	TV Label, Inner, Left	1
CA	3001–400–616	TV Label, Inner, Right	1
CC	3001–400–953	Switch Cap	18
CD	3001–400–522	Filler Cap	22
CE	3001–403–831	Speaker With Cable	2
CF	3001–400–535	Blank Module	2
CH	3001–400–630	NC, G/F Label, Outer, Left	1
CH	3001–400–640	NC, G/F Label, Outer, Right	1

Inner PCB Switch/Cap Placement



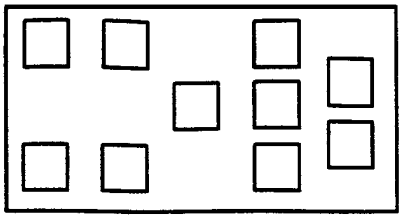
Outer PCB Switch/Cap Placement



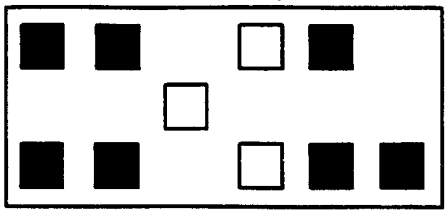
 = Switch Cap  = Filler Cap

Head End Siderail Assembly

Inner PCB Switch/Cap Placement



Outer PCB Switch/Cap Placement

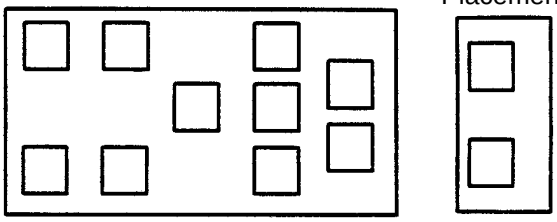


3001–999–4 Std. Siderail w/Nurse Call, TV/Radio, & Lights

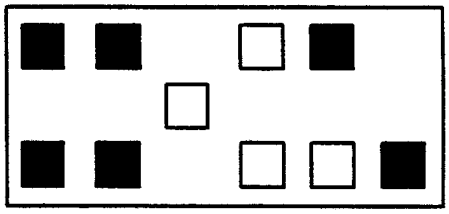
Item	Part No.	Part Name	Qty.
CA	3001–400–623	NC, TV, Lights Label, Inner, Left	1
CA	3001–400–613	NC, TV, Lights Label, Inner, Right	1
CC	3001–400–953	Switch Cap	26
CD	3001–400–522	Filler Cap	14
CE	3001–403–831	Speaker with Cable	2
CF	3001–400–535	Blank Module	2
CH	3001–400–631	Nurse Call Label, Outer, Left	1
CH	3001–400–641	Nurse Call Label, Outer, Right	1

Inner DMS PCB Switch/Cap Placement

Inner PCB Switch/Cap Placement



Outer PCB Switch/Cap Placement

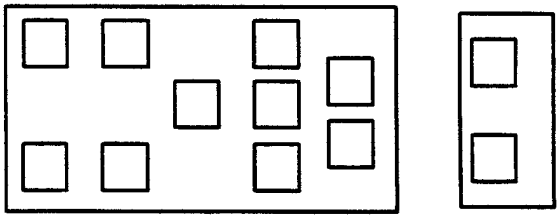


3001–999–5 Std. Siderail w/NC, TV/Radio, Lights, & DMS

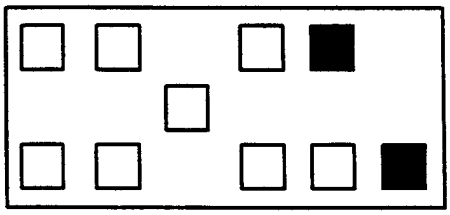
Item	Part No.	Part Name	Qty.
AZ	3000–300–114	Cable Tie	3
CA	3001–400–623	NC, TV, Lights Label, In., Lt.	1
CA	3001–400–613	NC, TV, Lights Label, In., Rt.	1
CB	3001–402–1	Inner DMS Label, Left	1
CB	3001–402–2	Inner DMS Label, Right	1
CC	3001–400–953	Switch Cap	32
CD	3001–400–522	Filler Cap	12
CE	3001–403–831	Speaker With Cable	2
CF	3001–402–30	DMS Module	2
CH	3001–400–635	NC, DMS Label, Outer, Left	1
CH	3001–400–645	NC, DMS Label, Outer, Right	1
CJ	3001–402–804	Main to Options PCB Cable, Left	1
CJ	3001–402–803	Main to Options PCB Cable, Right	1

Inner DMS PCB Switch/Cap Placement

Inner PCB Switch/Cap Placement



Outer PCB Switch/Cap Placement

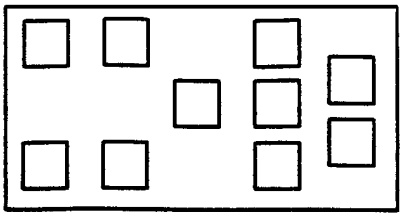


3001–999–6 Std. Siderail w/NC, TV/Radio, Lights, DMS, & G/F

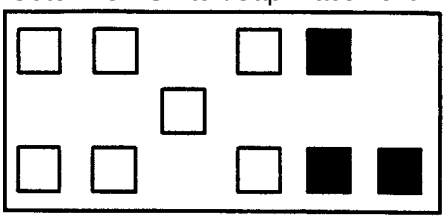
Item	Part No.	Part Name	Qty.
AZ	3000–300–114	Cable Tie	3
CB	3001–402–1	Inner DMS Label, Left	1
CB	3001–402–2	Inner DMS Label, Right	1
CA	3001–400–623	NC, TV, Lights Label, In., Lt.	1
CA	3001–400–613	NC, TV, Lights Label, In., Rt.	1
CC	3001–400–953	Switch Cap	40
CD	3001–400–522	Filler Cap	4
CE	3001–403–831	Speaker With Cable	2
CF	3001–402–30	DMS Module	2
CH	3001–400–633	NC, DMS, G/F Label, Outer, Left	1
CH	3001–400–643	NC, DMS, G/F Label, Outer, Right	1
CJ	3001–402–804	Main to Options PCB Cable, Left	1
CJ	3001–402–803	Main to Options PCB Cable, Right	1

Head End Siderail Assembly

Inner PCB Switch/Cap Placement



Outer PCB Switch/Cap Placement

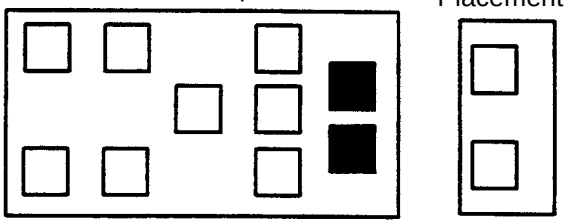


3001–999–7 Std. Siderail w/NC, TV/Radio, Lights, & G/F

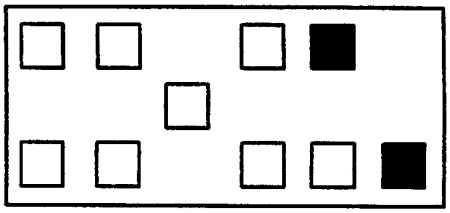
Item	Part No.	Part Name	Qty.
CA	3001–400–623	NC, TV, Lights Label, Inner, Left	1
CA	3001–400–613	NC, TV, Lights Label, Inner, Right	1
CC	3001–400–953	Switch Cap	34
CD	3001–400–522	Filler Cap	6
CE	3001–403–831	Speaker with Cable	2
CF	3001–400–535	Blank Module	2
CH	3001–400–632	NC, G/F Label, Outer, Left	1
CH	3001–400–642	NC, G/F Label, Outer, Right	1

Inner DMS PCB Switch/Cap Placement

Inner PCB Switch/Cap Placement



Outer PCB Switch/Cap Placement

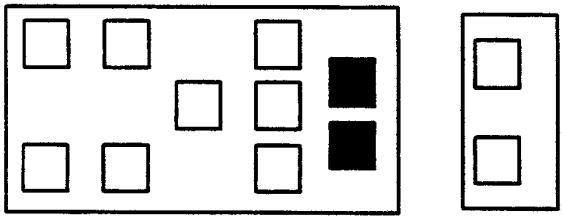


3001–999–8 Std. Siderail w/NC, TV/Radio, DMS, & G/F

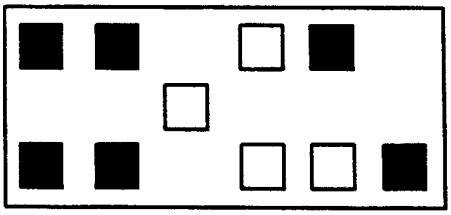
Item	Part No.	Part Name	Qty.
AZ	3000–300–114	Cable Tie	3
CA	3001–400–622	NC, TV Label, Inner, Left	1
CA	3001–400–612	NC, TV Label, Inner, Right	1
CB	3001–402–1	DMS Label, Left	1
CB	3001–402–2	DMS Label, Right	1
CC	3001–400–953	Switch Cap	36
CD	3001–400–522	Filler Cap	8
CE	3001–403–831	Speaker With Cable	2
CF	3001–402–30	DMS Module	2
CH	3001–400–633	NC, G/F, DMS Label, Outer, Left	1
CH	3001–400–643	NC, G/F, DMS Label, Outer, Right	1
CJ	3001–402–804	Main to Options PCB Cable, Left	1
CJ	3001–402–803	Main to Options PCB Cable, Right	1

Inner DMS PCB Switch/Cap Placement

Inner PCB Switch/Cap Placement



Outer PCB Switch/Cap Placement



3001–999–9 Std. Siderail w/NC, TV/Radio, & DMS

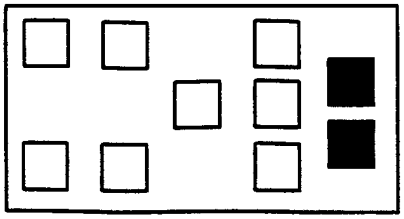
Item	Part No.	Part Name	Qty.
AZ	3000–300–114	Cable Tie	3
CA	3001–400–622	NC, TV Label, Inner, Left	1
CA	3001–400–612	NC, TV Label, Inner, Right	1
CB	3001–402–1	Inner DMS Label, Left	1
CB	3001–402–2	Inner DMS Label, Right	1
CC	3001–400–953	Switch Cap	28
CD	3001–400–522	Filler Cap	16
CE	3001–403–831	Speaker With Cable	2
CF	3001–402–30	DMS Module	2
CH	3001–400–635	NC, DMS Label, Outer, Left	1
CH	3001–400–645	NC, DMS Label, Outer, Right	1
CJ	3001–402–804	Main to Options PCB Cable, Left	1
CJ	3001–402–803	Main to Options PCB Cable, Right	1

Head End Siderail Assembly

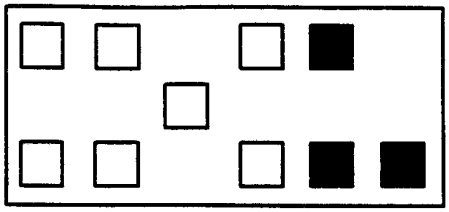
3001–999–10 Standard Siderail w/NC, TV/Radio, & G/F

Item	Part No.	Part Name	Qty.
CA	3001–400–622	NC, TV Label, Inner, Left	1
CA	3001–400–612	NC, TV Label, Inner, Right	1
CC	3001–400–953	Switch Cap	30
CD	3001–400–522	Filler Cap	10
CE	3001–403–831	Speaker with Cable	2
CF	3001–400–535	Blank Module	2
CH	3001–400–632	NC, G/F Label, Outer, Left	1
CH	3001–400–642	NC, G/F Label, Outer, Right	1

Inner PCB Switch/Cap Placement



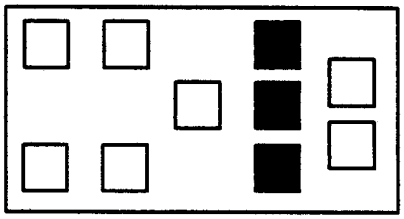
Outer PCB Switch/Cap Placement



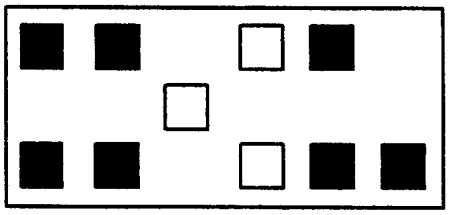
3001–999–11 Standard Siderail w/Nurse Call & Lights

Item	Part No.	Part Name	Qty.
CA	3001–400–625	NC, Lights Label, Inner, Left	1
CA	3001–400–615	NC, Lights Label, Inner, Right	1
CC	3001–400–953	Switch Cap	20
CD	3001–400–522	Filler Cap	20
CE	3001–403–831	Speaker With Cable	2
CF	3001–400–535	Blank Module	2
CH	3001–400–631	NC Label, Outer, Left	1
CH	3001–400–641	NC Label, Outer, Right	1

Inner PCB Switch/Cap Placement



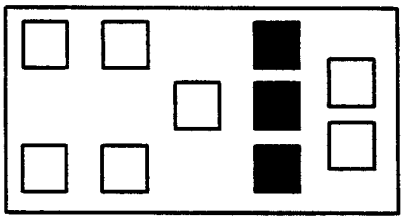
Outer PCB Switch/Cap Placement



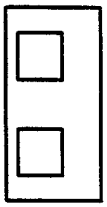
3001–999–12 Standard Siderail w/NC, Lights, & DMS

Item	Part No.	Part Name	Qty.
AZ	3000–300–114	Cable Tie	3
CA	3001–400–625	NC, Lights Label, Inner, Left	1
CA	3001–400–615	NC, Lights Label, Inner, Right	1
CB	3001–402–1	Inner DMS Label, Left	1
CB	3001–402–2	Inner DMS Label, Right	1
CC	3001–400–953	Switch Cap	22
CD	3001–400–522	Filler Cap	18
CE	3001–403–831	Speaker With Cable	2
CF	3001–402–30	DMS Module	2
CH	3001–400–635	NC, DMS Label, Outer, Left	1
CH	3001–400–645	NC, DMS Label, Outer, Right	1
CJ	3001–402–804	Main to Options PCB Cable, Left	1
CJ	3001–402–803	Main to Options PCB Cable, Right	1

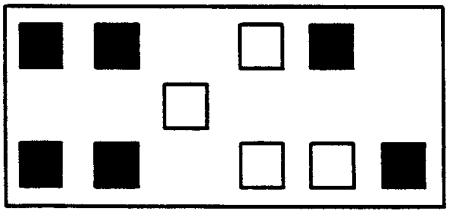
Inner PCB Switch/Cap Placement



Inner DMS PCB Switch/Cap Placement



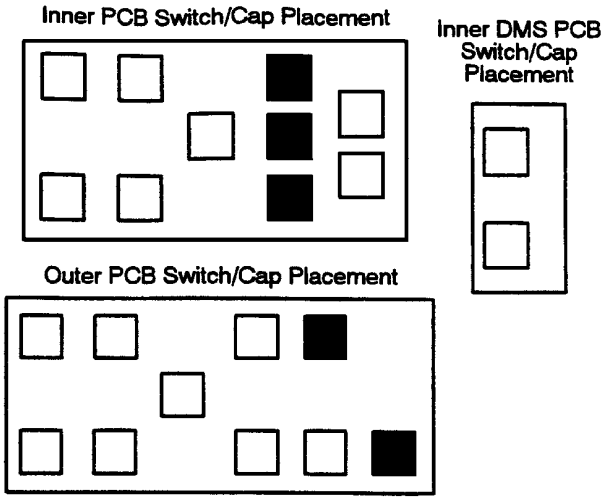
Outer PCB Switch/Cap Placement



Head End Siderail Assembly

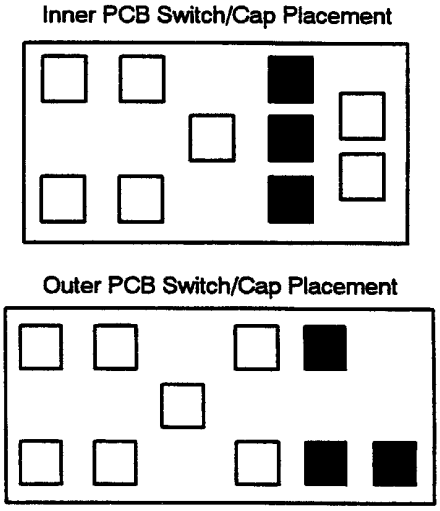
3001–999–13 Std. Siderail w/NC, Lights, DMS & G/F

Item	Part No.	Part Name	Qty.
AZ	3000–300–114	Cable Tie	3
CA	3001–400–625	NC, Lights Label Inner, Left	1
CA	3001–400–615	NC, Lights Label, Inner, Right	1
CB	3001–402–1	DMS Label, Left	1
CB	3001–402–2	DMS Label, Right	1
CC	3001–400–953	Switch Cap	34
CD	3001–400–522	Filler Cap	10
CE	3001–403–831	Speaker With Cable	2
CF	3001–402–30	DMS Module	2
CH	3001–400–633	NC, G/F, DMS Label, Outer, Left	1
CH	3001–400–643	NC, G/F, DMS Label, Outer, Right	1
CJ	3001–402–804	Main to Options PCB Cable, Left	1
CJ	3001–402–803	Main to Options PCB Cable, Right	1



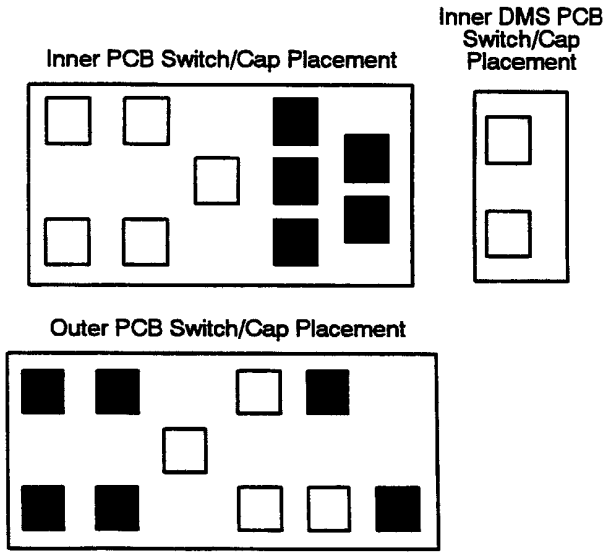
3001–999–14 Standard Siderail w/NC, Lights, & G/F

Item	Part No.	Part Name	Qty.
CA	3001–400–625	NC, Lights Label Inner, Left	1
CA	3001–400–615	NC, Lights Label, Inner, Right	1
CC	3001–400–953	Switch Cap	28
CD	3001–400–522	Filler Cap	12
CE	3001–403–831	Speaker With Cable	2
CF	3001–400–535	Blank Module	2
CH	3001–400–632	NC, G/F Label, Outer, Left	1
CH	3001–400–642	NC, G/F Label, Outer, Right	1



3001–999–15 Standard Siderail w/Nurse Call & DMS

Item	Part No.	Part Name	Qty.
AZ	3000–300–114	Cable Tie	3
CA	3001–400–621	Nurse Call Label, Inner, Left	1
CA	3001–400–611	Nurse Call Label, Inner, Right	1
CB	3001–402–1	Inner DMS Label, Left	1
CB	3001–402–2	Inner DMS Label, Right	1
CC	3001–400–953	Switch Cap	22
CD	3001–400–522	Filler Cap	22
CE	3001–403–831	Speaker With Cable	2
CF	3001–402–30	DMS Module	2
CH	3001–400–635	NC, DMS Label, Outer, Left	1
CH	3001–400–645	NC, DMS Label, Outer, Right	1
CJ	3001–402–804	Main to Options PCB Cable, Left	1
CJ	3001–402–803	Main to Options PCB Cable, Right	1

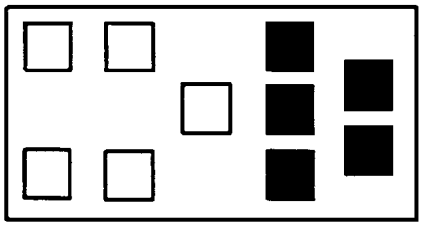


Head End Siderail Assembly

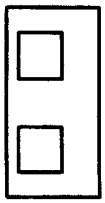
3001–999–16 Std. Siderail w/Nurse Call, DMS, & G/F

Item	Part No.	Part Name	Qty.
AN	3000–300–114	Cable Tie	3
CA	3001–400–621	Nurse Call Label, Inner, Left	1
CA	3001–400–611	Nurse Call Label, Inner, Right	1
CB	3001–402–1	DMS Label, Left	1
CB	3001–402–2	DMS Label, Right	1
CC	3001–400–953	Switch Cap	30
CD	3001–400–522	Filler Cap	14
CE	3001–403–831	Speaker with Cable	2
CF	3001–402–30	DMS Module	2
CH	3001–400–633	NC, G/F, DMS Label, Outer, Left	1
CH	3001–400–643	NC, G/F, DMS Label, Outer, Right	1
CJ	3001–402–804	Main to Options PCB Cable, Left	1
CJ	3001–402–803	Main to Options PCB Cable, Right	1

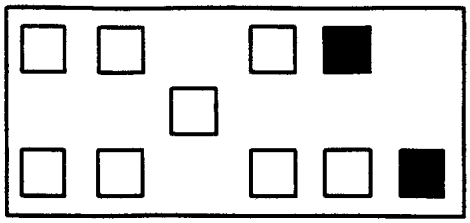
Inner PCB Switch/Cap Placement



Inner DMS PCB Switch/Cap Placement



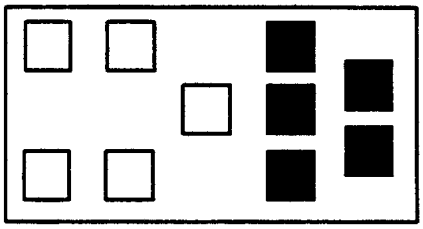
Outer PCB Switch/Cap Placement



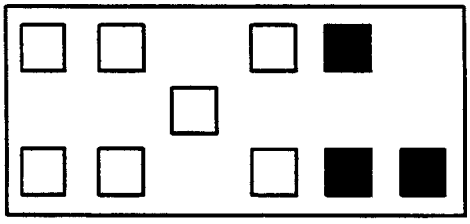
3001–999–17 Standard Siderail w/Nurse Call & G/F

Item	Part No.	Part Name	Qty.
CA	3001–400–621	Nurse Call Label, Inner, Left	1
CA	3001–400–611	Nurse Call Label, Inner, Right	1
CC	3001–400–953	Switch Cap	24
CD	3001–400–522	Filler Cap	16
CE	3001–403–831	Speaker With Cable	2
CF	3001–400–535	Blank Module	2
CH	3001–400–632	NC, G/F Label, Outer, Left	1
CH	3001–400–642	NC, G/F Label, Outer, Right	1

Inner PCB Switch/Cap Placement



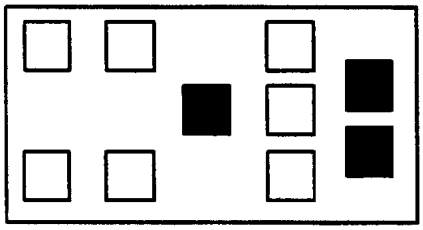
Outer PCB Switch/Cap Placement



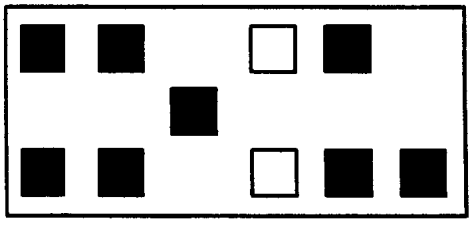
3001–999–18 Standard Siderail with TV/Radio

Item	Part No.	Part Name	Qty.
CA	3001–400–626	TV Label, Inner, Left	1
CA	3001–400–616	TV Label, Inner, Right	1
CC	3001–400–953	Switch Cap	18
CD	3001–400–522	Filler Cap	22
CE	3001–403–831	Speaker with Cable	2
CF	3001–400–535	Blank Module	2
CH	3001–400–630	Standard Label, Outer, Left	1
CH	3001–400–640	Standard Label, Outer, Right	1

Inner PCB Switch/Cap Placement



Outer PCB Switch/Cap Placement

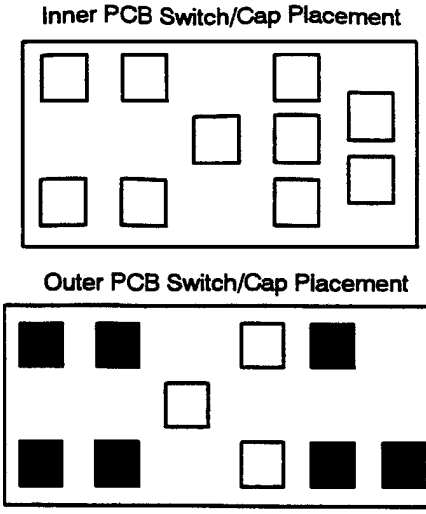


□ = Switch Cap ■ = Filler Cap

Head End Siderail Assembly

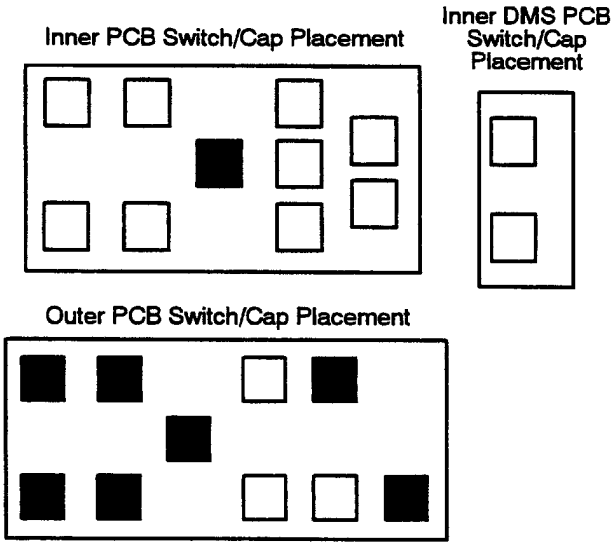
3001–999–19 Standard Siderail with TV/Radio & Lights

Item	Part No.	Part Name	Qty.
CA	3001–400–622	TV/Lights Label, Inner, Left	1
CA	3001–400–612	TV/Lights Label, Inner, Right	1
CC	3001–400–953	Switch Cap	26
CD	3001–400–522	Filler Cap	14
CE	3001–403–831	Speaker With Cable	2
CF	3001–400–535	Blank Module	2
CH	3001–400–630	Standard Label, Outer, Left	1
CH	3001–400–640	Standard Label, Outer, Right	1



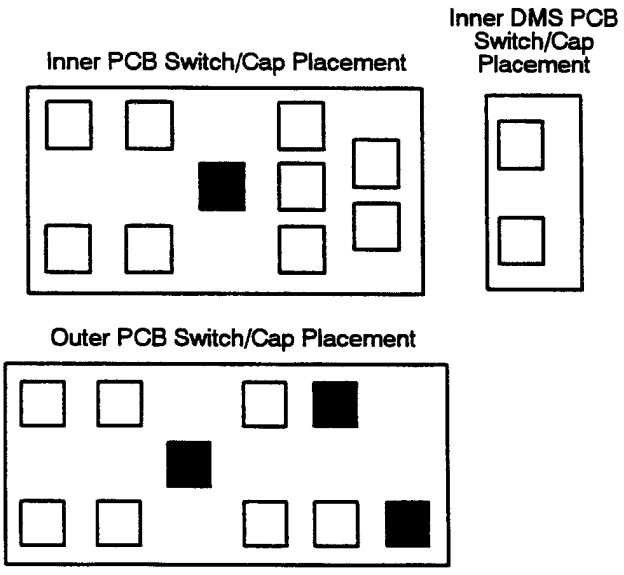
3001–999–20 Std. Siderail with TV/Radio, Lights & DMS

Item	Part No.	Part Name	Qty.
AZ	3000–300–114	Cable Tie	3
CA	3001–400–624	TV, Lights Label, Inner, Left	1
CA	3001–400–614	TV, Lights Label, Inner, Right	1
CB	3001–402–1	DMS Label, Left	1
CB	3001–402–2	DMS Label, Right	1
CC	3001–400–953	Switch Cap	28
CD	3001–400–522	Filler Cap	16
CE	3001–403–831	Speaker With Cable	2
CF	3001–402–30	DMS Module	2
CH	3001–400–637	DMS Label, Outer, Left	1
CH	3001–400–647	DMS Label, Outer, Right	1
CJ	3001–402–804	Main to Options PCB Cable, Left	1
CJ	3001–402–803	Main to Options PCB Cable, Right	1



3001–999–21 Std. Siderail with TV/Radio, Lights, G/F & DMS

Item	Part No.	Part Name	Qty.
AZ	3000–300–114	Cable Tie	3
CA	3001–400–624	TV, Lights Label, Inner, Left	1
CA	3001–400–614	TV, Lights Label, Inner, Right	1
CB	3001–402–1	DMS Label, Left	1
CB	3001–402–2	DMS Label, Right	1
CC	3001–400–953	Switch Cap	36
CD	3001–400–522	Filler Cap	8
CE	3001–403–831	Speaker With Cable	2
CF	3001–402–30	DMS Module	2
CH	3001–400–634	DMS, G/F Label, Outer, Left	1
CH	3001–400–644	DMS, G/F Label, Outer, Right	1
CJ	3001–402–804	Main to Options PCB Cable, Left	1
CJ	3001–402–803	Main to Options PCB Cable, Right	1

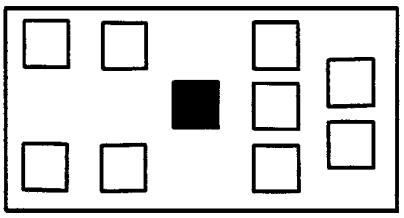


Head End Siderail Assembly

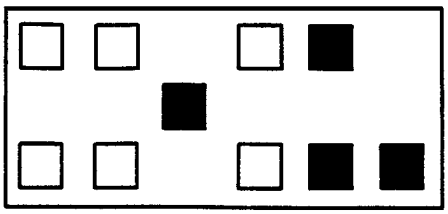
3001–999–22 Standard Siderail with G/F, TV/Radio, & Lights

Item	Part No.	Part Name	Qty.
CA	3001–400–624	TV, Lights Label, Inner, Left	1
CA	3001–400–614	TV, Lights Label, Inner, Right	1
CC	3001–400–953	Switch Cap	30
CD	3001–400–522	Filler Cap	10
CE	3001–403–831	Speaker with Cable	2
CF	3001–400–535	Blank Module	2
CH	3001–400–636	G/F Label, Outer, Left	1
CH	3001–400–646	G/F Label, Outer, Right	1

Inner PCB Switch/Cap Placement



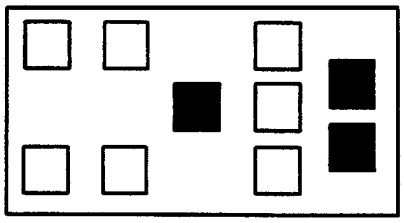
Outer PCB Switch/Cap Placement



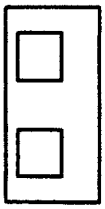
3001–999–23 Standard Siderail with TV/Radio, G/F, & DMS

Item	Part No.	Part Name	Qty.
AZ	3000–300–114	Cable Tie	3
CA	3001–400–626	TV Label, Inner, Left	1
CA	3001–400–616	TV Label, Inner, Right	1
CB	3001–402–1	DMS Label, Left	1
CB	3001–402–2	DMS Label, Right	1
CC	3001–400–953	Switch Cap	32
CD	3001–400–522	Filler Cap	12
CE	3001–403–831	Speaker With Cable	2
CF	3001–402–30	DMS Module	2
CH	3001–400–634	DMS, G/F Label, Outer, Left	1
CH	3001–400–644	DMS, G/F Label, Outer, Right	1
CJ	3001–402–804	Main to Options PCB Cable, Left	1
CJ	3001–402–803	Main to Options PCB Cable, Right	1

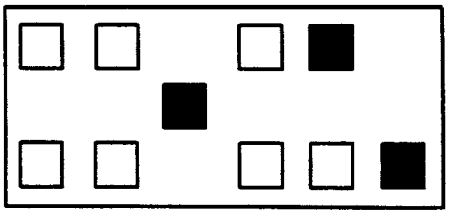
Inner PCB Switch/Cap Placement



Inner DMS PCB Switch/Cap Placement



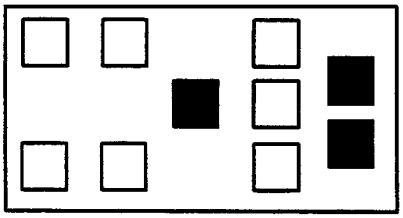
Outer PCB Switch/Cap Placement



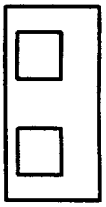
3001–999–24 Standard Siderail with TV/Radio & DMS

Item	Part No.	Part Name	Qty.
AZ	3000–300–114	Cable Tie	3
CA	3001–400–626	NC, TV Label, Inner, Left	1
CA	3001–400–616	NC, TV Label, Inner, Right	1
CB	3001–402–1	DMS Label, Left	1
CB	3001–402–2	DMS Label, Right	1
CC	3001–400–953	Switch Cap	24
CD	3001–400–522	Filler Cap	20
CE	3001–403–831	Speaker With Cable	2
CF	3001–402–30	DMS Module	2
CH	3001–400–637	DMS Label, Outer, Left	1
CH	3001–400–647	DMS Label, Outer, Right	1
CJ	3001–402–804	Main to Options PCB Cable, Left	1
CJ	3001–402–803	Main to Options PCB Cable, Right	1

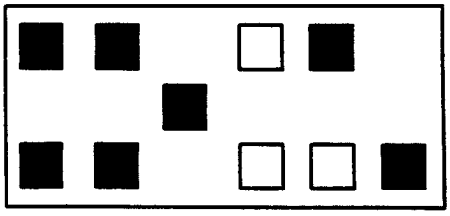
Inner PCB Switch/Cap Placement



Inner DMS PCB Switch/Cap Placement



Outer PCB Switch/Cap Placement

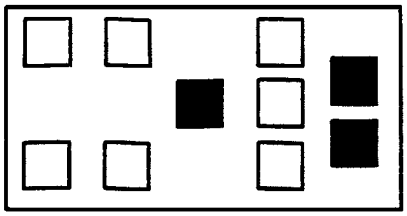


Head End Siderail Assembly

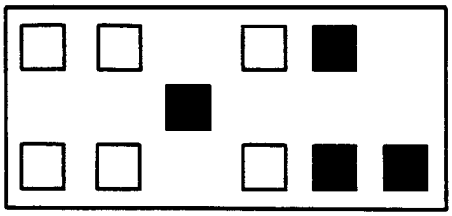
3001–999–25 Standard Siderail with TV/Radio & G/F

Item	Part No.	Part Name	Qty.
CA	3001–400–626	TV Label, Inner, Left	1
CA	3001–400–616	TV Label, Inner, Right	1
CC	3001–400–953	Switch Cap	26
CD	3001–400–522	Filler Cap	14
CE	3001–403–831	Speaker with Cable	2
CF	3001–400–535	Blank Module	2
CH	3001–400–636	G/F Label, Outer, Left	1
CH	3001–400–646	G/F Label, Outer, Right	1

Inner PCB Switch/Cap Placement



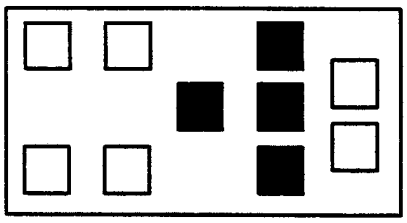
Outer PCB Switch/Cap Placement



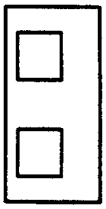
3001–999–26 Standard Siderail with Lights & DMS

Item	Part No.	Part Name	Qty.
AZ	3000–300–114	Cable Tie	3
CA	3001–400–627	Lights Label, Inner, Left	1
CA	3001–400–617	Lights Label, Inner, Right	1
CB	3001–402–1	Inner DMS Label, Left	1
CB	3001–402–2	Inner DMS Label, Right	1
CC	3001–400–953	Switch Cap	22
CD	3001–400–522	Filler Cap	22
CE	3001–400–517	Speaker Seal	2
CF	3001–402–30	DMS Module	2
CH	3001–400–637	DMS Label, Outer, Left	1
CH	3001–400–647	DMS Label, Outer, Right	1
CJ	3001–402–804	Main to Options PCB Cable, Left	1
CJ	3001–402–803	Main to Options PCB Cable, Right	1

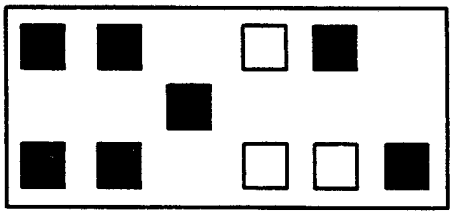
Inner PCB Switch/Cap Placement



Inner DMS PCB Switch/Cap Placement



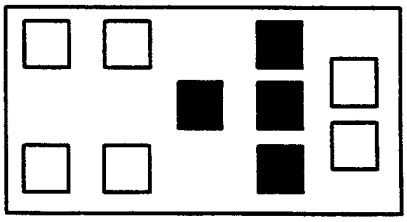
Outer PCB Switch/Cap Placement



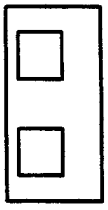
3001–999–27 Standard Siderail w/Lights, G/F, & DMS

Item	Part No.	Part Name	Qty.
AZ	3000–300–114	Cable Tie	3
CA	3001–400–627	Lights Label, Inner, Left	1
CA	3001–400–617	Lights Label, Inner, Right	1
CB	3001–402–1	Inner DMS Label, Left	1
CB	3001–402–2	Inner DMS Label, Right	1
CC	3001–400–953	Switch Cap	30
CD	3001–400–522	Filler Cap	14
CE	3001–400–517	Speaker Seal	2
CF	3001–402–30	DMS Module	2
CH	3001–400–634	DMS, G/F Label, Outer, Left	1
CH	3001–400–644	DMS, G/F Label, Outer, Right	1
CJ	3001–402–804	Main to Options PCB Cable, Left	1
CJ	3001–402–803	Main to Options PCB Cable, Right	1

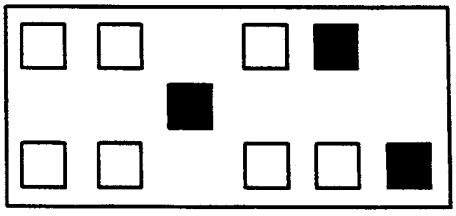
Inner PCB Switch/Cap Placement



Inner DMS PCB Switch/Cap Placement



Outer PCB Switch/Cap Placement

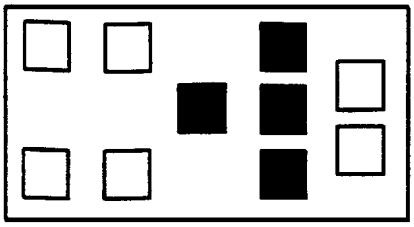


Head End Siderail Assembly

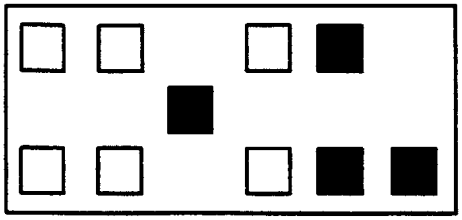
3001–999–28 Standard Siderail w/Lights and G/F

Item	Part No.	Part Name	Qty.
CA	3001–400–627	Lights Label, Inner, Left	1
CA	3001–400–617	Lights Label, Inner, Right	1
CC	3001–400–953	Switch Cap	24
CD	3001–400–522	Filler Cap	16
CE	3001–400–517	Speaker Seal	2
CF	3001–400–535	Blank Module	2
CH	3001–400–636	G/F Label, Outer, Left	1
CH	3001–400–646	G/F Label, Outer, Right	1

Inner PCB Switch/Cap Placement



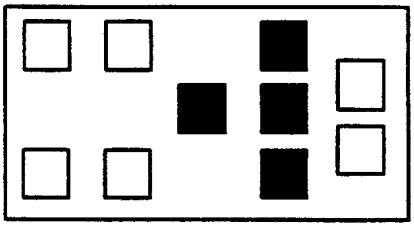
Outer PCB Switch/Cap Placement



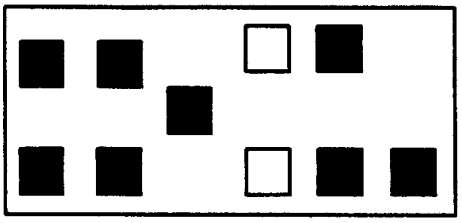
3001–999–29 Standard Siderail with Lights

Item	Part No.	Part Name	Qty.
CA	3001–400–627	Lights Label, Inner, Left	1
CA	3001–400–617	Lights Label, Inner, Right	1
CC	3001–400–953	Switch Cap	16
CD	3001–400–522	Filler Cap	24
CE	3001–400–517	Speaker Seal	2
CF	3001–400–535	Blank Module	2
CH	3001–400–630	Standard Label, Outer, Left	1
CH	3001–400–640	Standard Label, Outer, Right	1

Inner PCB Switch/Cap Placement



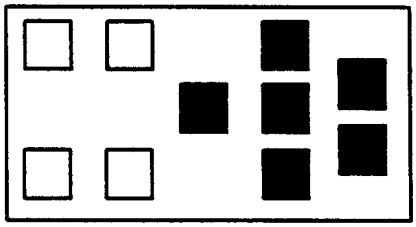
Outer PCB Switch/Cap Placement



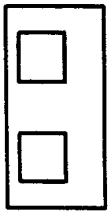
3001–999–30 Standard Siderail with DMS

Item	Part No.	Part Name	Qty.
AZ	3000–300–114	Cable Tie	3
CA	3001–400–620	Standard Label, Inner, Left	1
CA	3001–400–610	Standard Label, Inner, Right	1
CB	3001–402–1	DMS Label, Left	1
CB	3001–402–2	DMS Label, Right	1
CC	3001–400–953	Switch Cap	18
CD	3001–400–522	Filler Cap	26
CE	3001–400–517	Speaker Seal	2
CF	3001–402–30	DMS Module	2
CH	3001–400–637	DMS Label, Outer, Left	1
CH	3001–400–647	DMS Label, Outer, Right	1
CJ	3001–402–804	Main to Options PCB Cable, Left	1
CJ	3001–402–803	Main to Options PCB Cable, Right	1

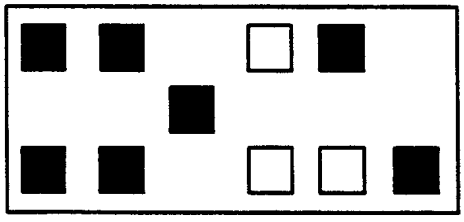
Inner PCB Switch/Cap Placement



Inner DMS PCB Switch/Cap Placement



Outer PCB Switch/Cap Placement



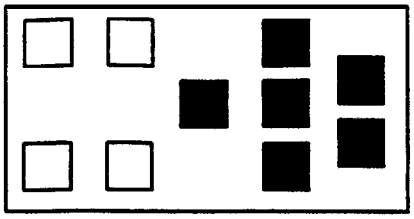
= Switch Cap = Filler Cap

Head End Siderail Assembly

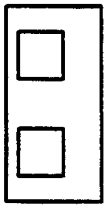
3001–999–31 Standard Siderail with DMS & G/F

Item	Part No.	Part Name	Qty.
AZ	3000–300–114	Cable Tie	3
CA	3001–400–620	Standard Label, Inner, Left	1
CA	3001–400–610	Standard Label, Inner, Right	1
CB	3001–402–1	DMS Label, Left	1
CB	3001–402–2	DMS Label, Right	1
CC	3001–400–953	Switch Cap	26
CD	3001–400–522	Filler Cap	18
CE	3001–400–517	Speaker Seal	2
CF	3001–402–30	DMS Module	2
CH	3001–400–634	DMS, G/F Label, Outer, Left	1
CH	3001–400–644	DMS, G/F Label, Outer, Right	1
CJ	3001–402–804	Main to Options PCB Cable, Left	1
CJ	3001–402–803	Main to Options PCB Cable, Right	1

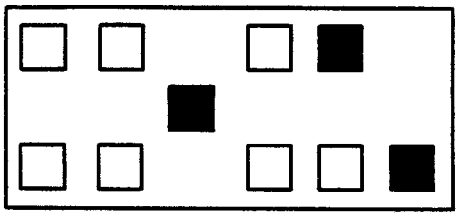
Inner PCB Switch/Cap Placement



Inner DMS PCB Switch/Cap Placement



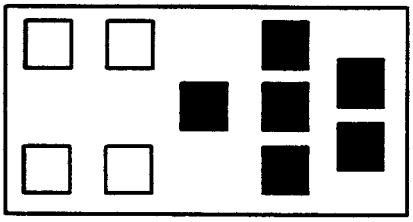
Outer PCB Switch/Cap Placement



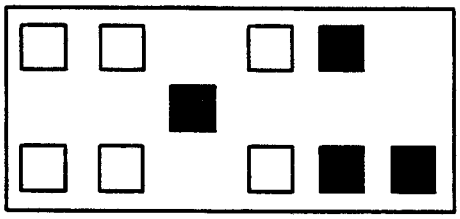
3001–999–32 Standard Siderail with G/F

Item	Part No.	Part Name	Qty.
CA	3001–400–620	Standard Label Inner, Left	1
CA	3001–400–610	Standard Label, Inner, Right	1
CC	3001–400–953	Switch Cap	20
CD	3001–400–522	Filler Cap	20
CE	3001–400–517	Speaker Seal	2
CF	3001–400–535	Blank Module	2
CH	3001–400–636	G/F Label, Outer, Left	1
CH	3001–400–646	G/F Label, Outer, Right	1

Inner PCB Switch/Cap Placement

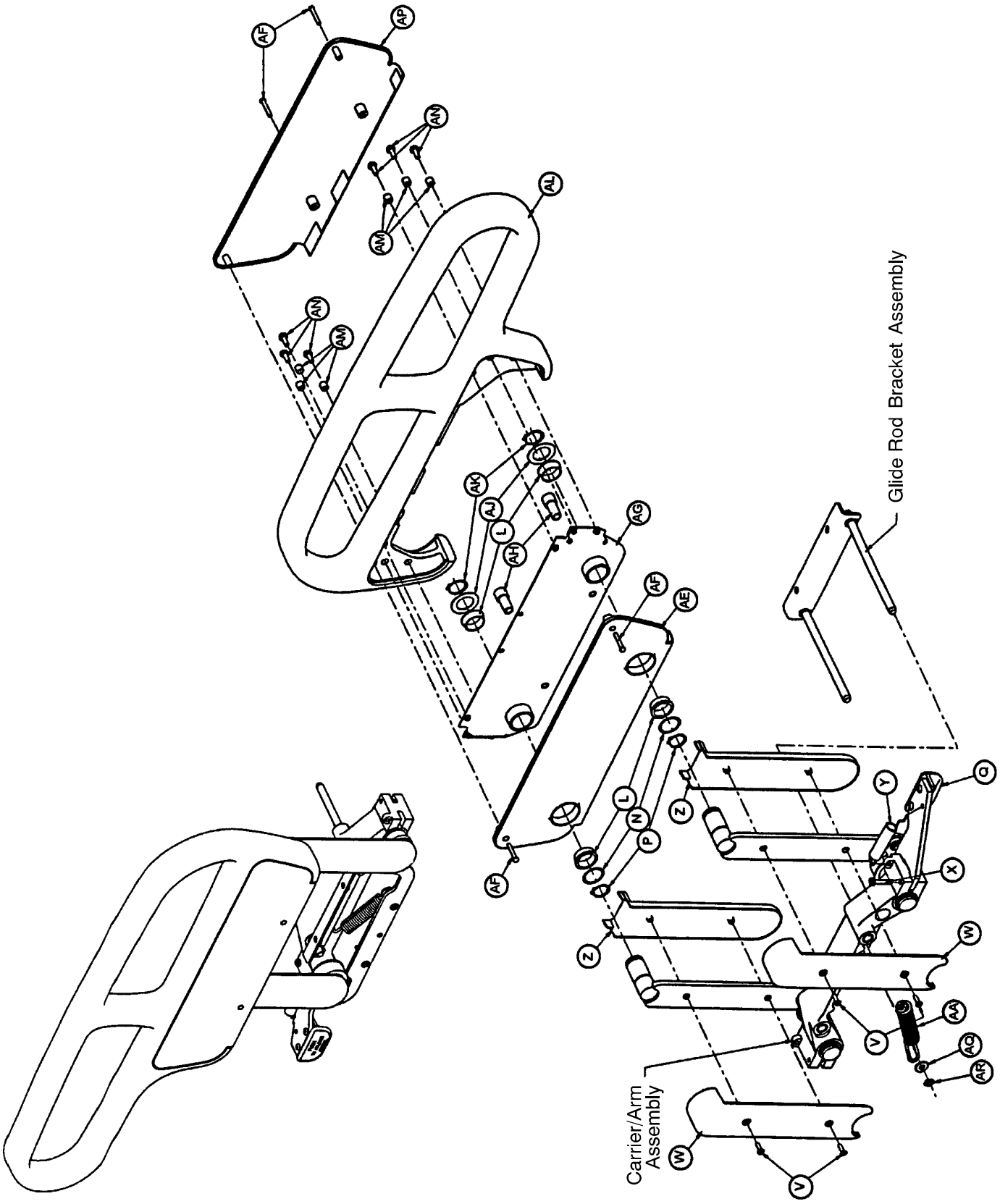


Outer PCB Switch/Cap Placement

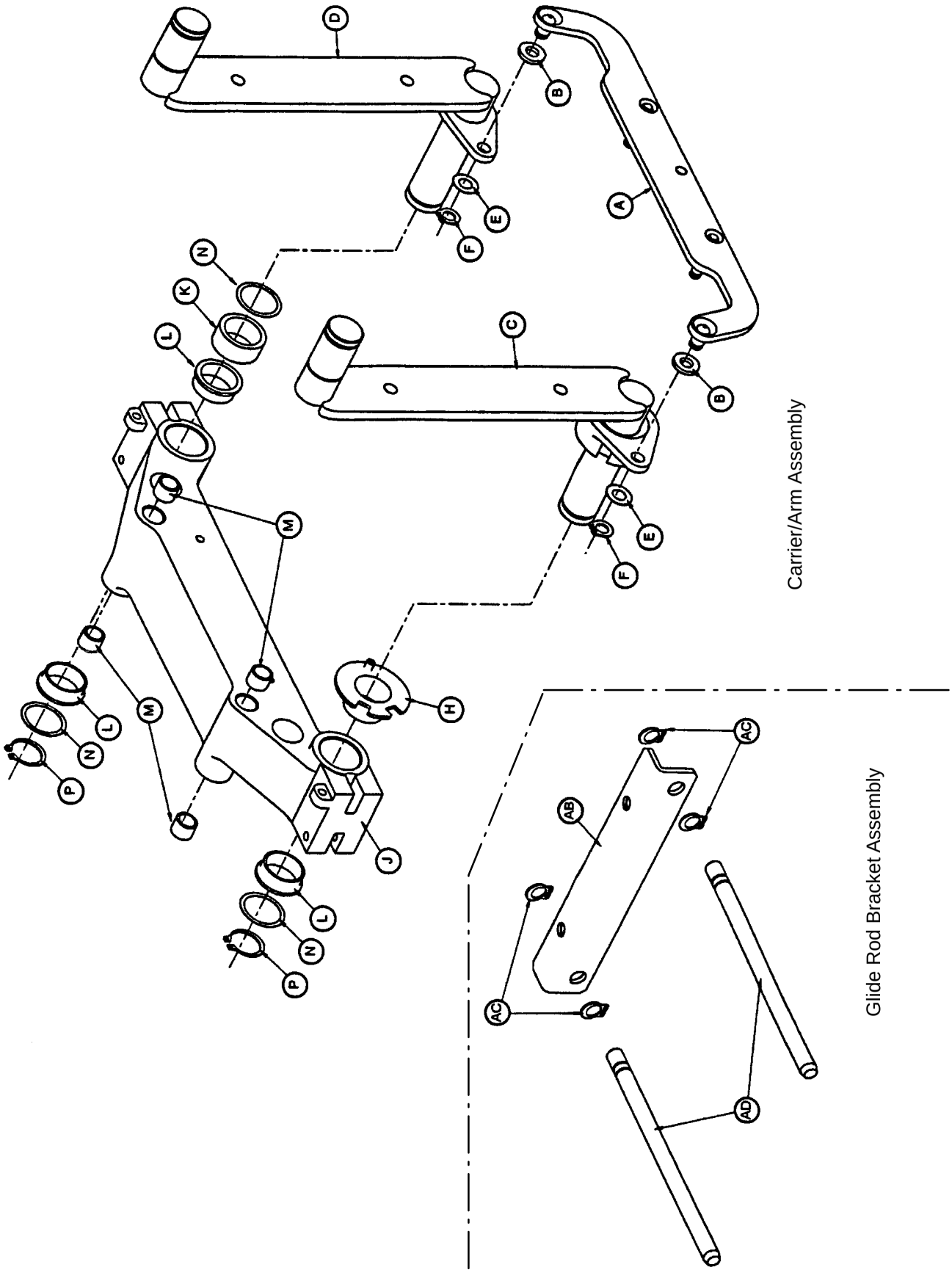


= Switch Cap = Filler Cap

Foot End Siderail Assembly



Foot End Siderail Assembly



Foot End Siderail Assembly

3001–400–300 Left Common Components

Item	Part No.	Part Name	Qty.
A	3001–400–320	Timing Link Weldment, Lt.	1
B	11–304	Shim Washer	2
D	3001–400–307	Foot Arm Wldmt., Lt., Head	1
E	11–377	Nylon Washer	2
F	28–127	Retaining Ring	2
H	3001–400–513	Wear Bushing	1
J	3001–400–508	Siderail Carrier	1
K	3001–400–530	Siderail Arm Spacer	1
L	3000–400–513	Flange Bearing	7
M	3000–400–557	Sleeve Bearing	4
N	11–353	Shim Washer	5
P	28–128	Retaining Ring	4
Q	(page 177.2)	Release Lever, Left	1
V	23–252	Self–Tapping Screw	4
W	3001–400–518	Inner Arm Cover	2
X	3–122	Hex Washer Hd. Screw	2
Y	3000–200–334	Extension Spring	1
Z	3001–400–519	Outer Arm Cover	2
AA	3000–400–545	Tension Spring	1
AB	3001–400–543	Mounting Bracket	1
AC	28–126	Retaining Ring	4
AD	3001–400–544	Glide Rod	2
AE	3001–400–526	Inner Panel	1
AF	23–90	High–Low Tapping Screw	4
AG	3001–400–31	Support Weldment, Foot	1
AH	3000–400–523	Panel Spacer	2
AJ	11–343	Shim Washer	2
AK	28–132	Bowed Retaining Ring	2
AL	3000–400–520	Foot Rail	1
AM	3000–400–558	Siderail Spacer	6
AN	3–124	Hex Washer Hd. Screw	6
AP	3001–400–527	Outer Panel	1
AQ	11–303	Flat Washer	1
AR	28–130	Retaining Ring	1

3001–400–400 Right Common Components

Item	Part No.	Part Name	Qty.
A	3001–400–420	Timing Link Weldment, Rt.	1
B	11–304	Shim Washer	2
D	3001–400–407	Foot Arm Wldmt., Rt., Head	1
E	11–377	Nylon Washer	2
F	28–127	Retaining Ring	2
H	3001–400–513	Wear Bushing	1
J	3001–400–508	Siderail Carrier	1
K	3001–400–530	Siderail Arm Spacer	1
L	3000–400–513	Flange Bearing	7
M	3000–400–557	Sleeve Bearing	4
N	11–353	Shim Washer	5
P	28–128	Retaining Ring	4
Q	(page 177.1)	Release Lever, Right	1
V	23–252	Self–Tapping Screw	4
W	3001–400–518	Inner Arm Cover	2
X	3–122	Hex Washer Hd. Screw	2
Y	3000–200–334	Extension Spring	1
Z	3001–400–519	Outer Arm Cover	2
AA	3000–400–545	Tension Spring	1
AB	3001–400–543	Mounting Bracket	1
AC	28–126	Retaining Ring	4
AD	3001–400–544	Glide Rod	2
AE	3001–400–526	Inner Panel	1
AF	23–90	High–Low Tapping Screw	4
AG	3001–400–31	Support Weldment, Foot	1
AH	3000–400–523	Panel Spacer	2
AJ	11–343	Shim Washer	2
AK	28–132	Bowed Retaining RIng	2
AL	3000–400–520	Foot Rail	1
AM	3000–400–558	Siderail Spacer	6
AN	3–124	Hex Washer Hd. Screw	6
AP	3001–400–527	Outer Panel	1
AQ	11–303	Flat Washer	1
AR	28–130	Retaining Ring	1

3001–442–300 Left Rail – Standard Bed

Item	Part No.	Part Name	Qty.
C	3001–400–328	Foot Arm Wldmt., Lt., Foot	1

3001–442–400 Right Rail – Standard Bed

Item	Part No.	Part Name	Qty.
C	3001–400–428	Foot Arm Wldmt., Rt., Foot	1

3001–443–300 Left Rail – 8” Shorter Bed

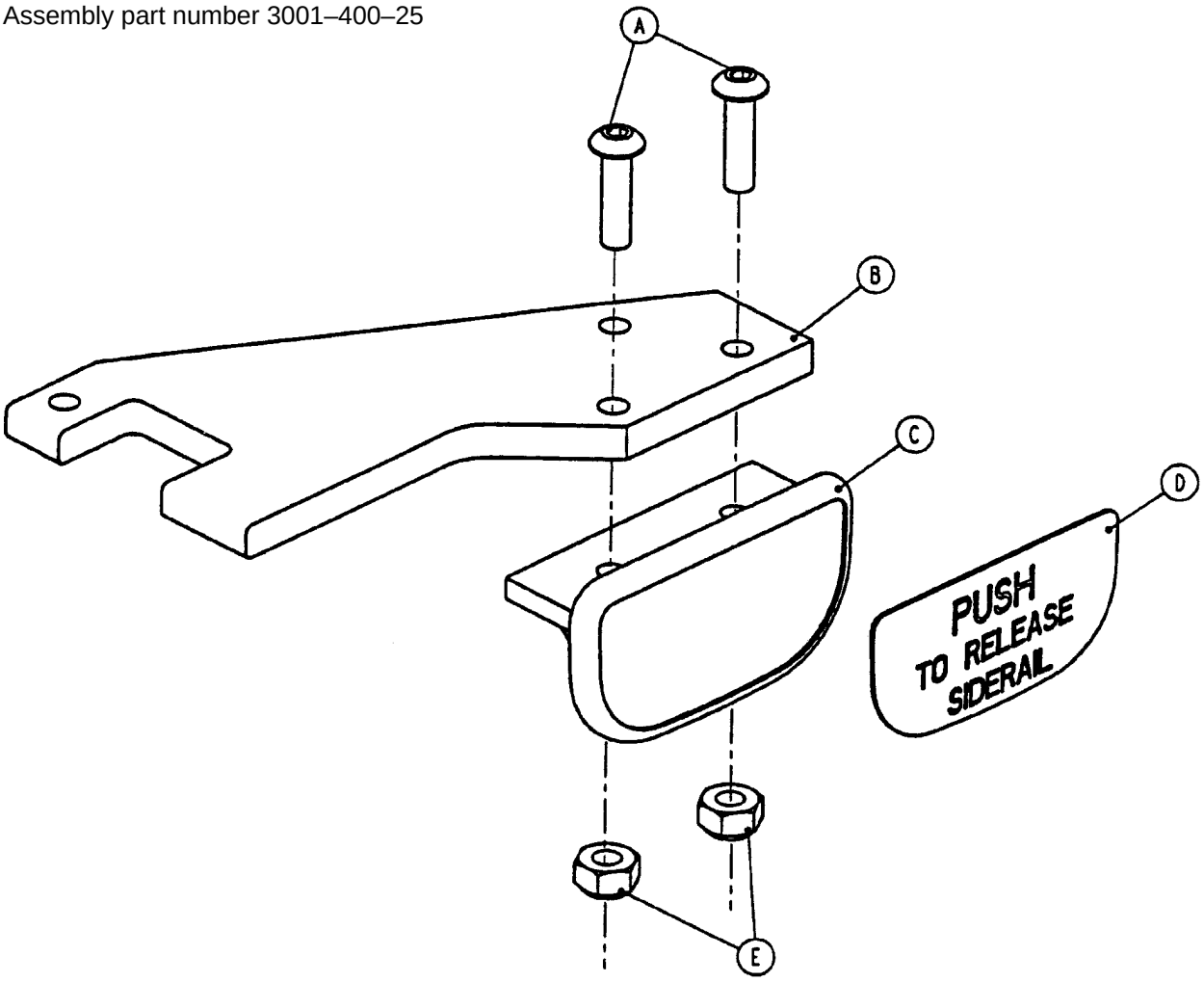
Item	Part No.	Part Name	Qty.
C	3001–442–318	Foot Arm Wldmt., Lt., Foot	1

3001–443–400 Right Rail – 8” Shorter Bed

Item	Part No.	Part Name	Qty.
C	3001–442–418	Foot Arm Wldmt., Rt., Foot	1

Siderail Release Lever Assembly, Right

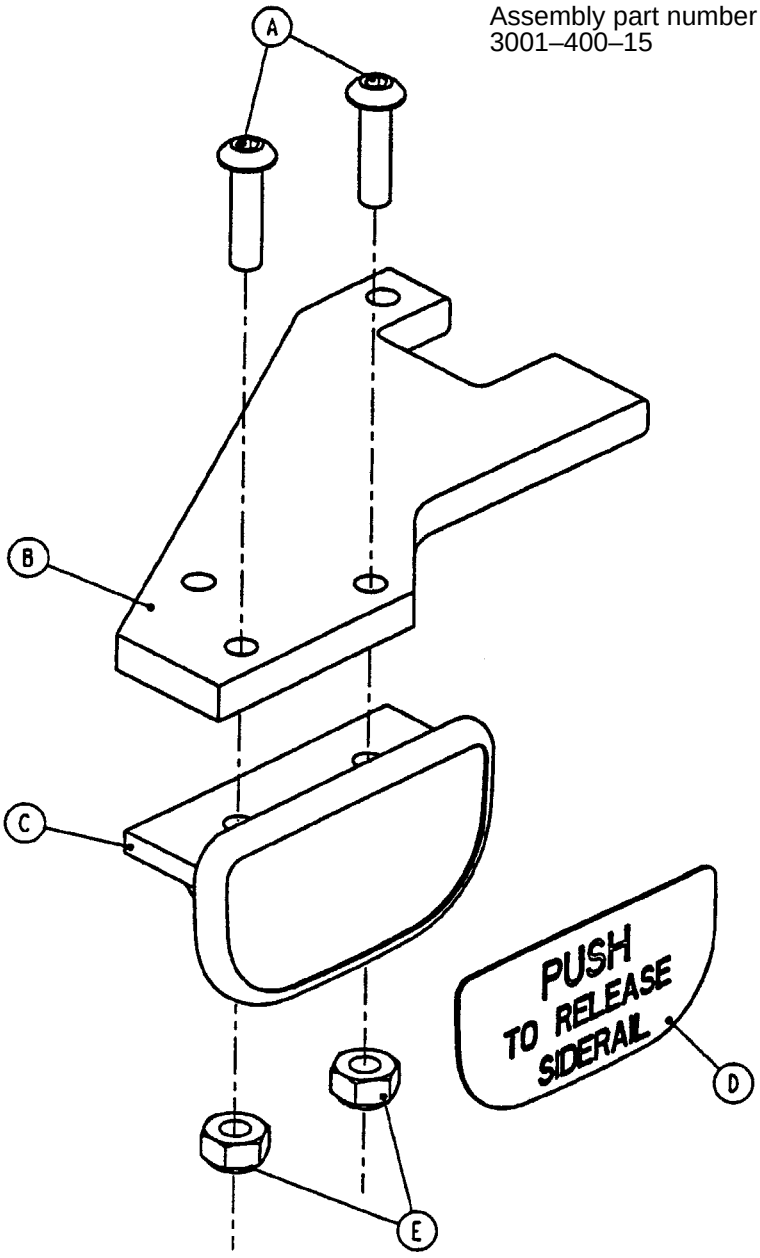
Assembly part number 3001–400–25



Item	Part No.	Part Name	Qty.
A	4–278	Button Hd. Screw	2
B	3001–400–550	Release Lever	1
C	3001–400–514	Release Lever Pad	1
D	3001–400–505	Pad Label	1
E	16–2	Nylock Nut	2

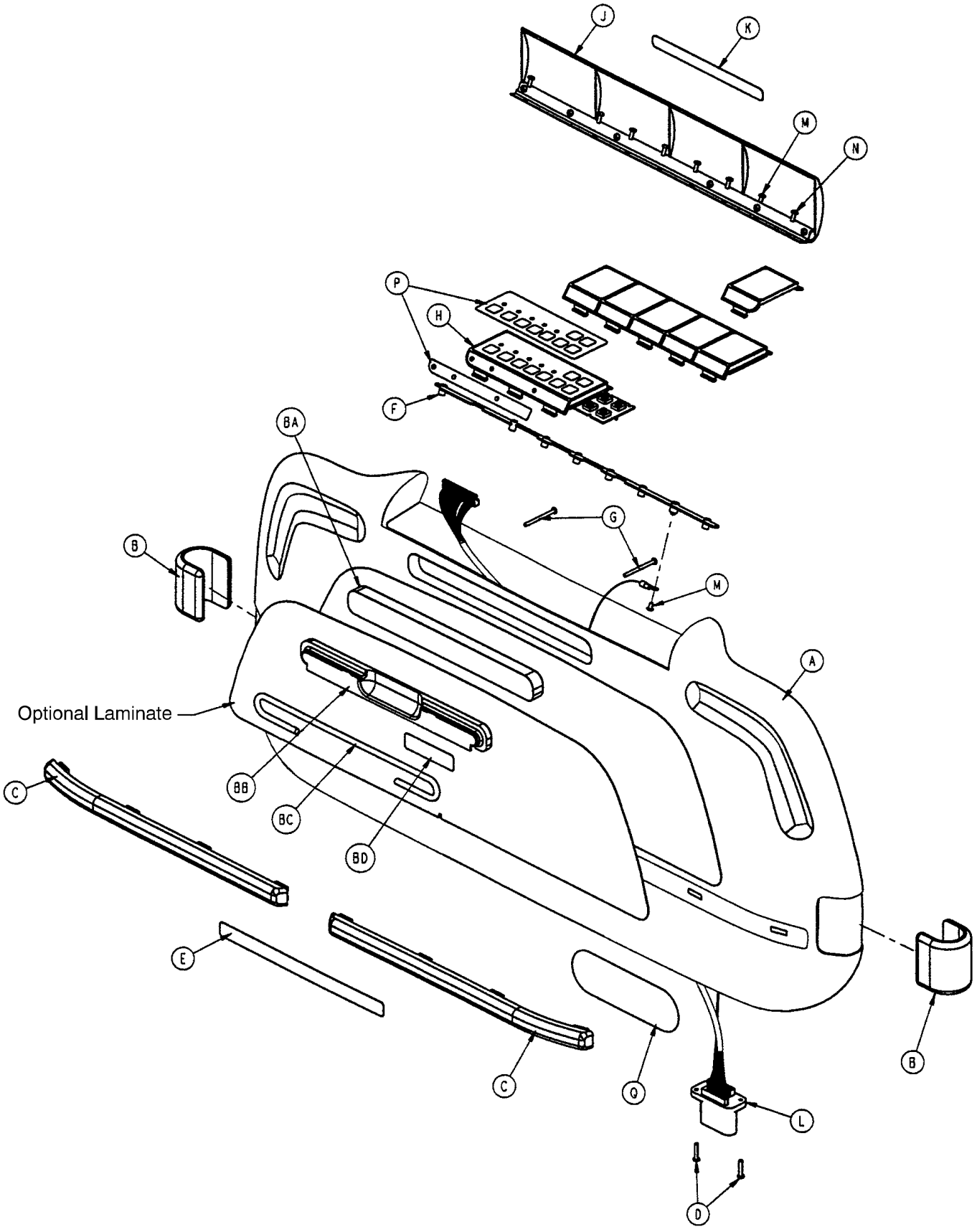
Siderail Release Lever Assembly, Left

Assembly part number
3001–400–15

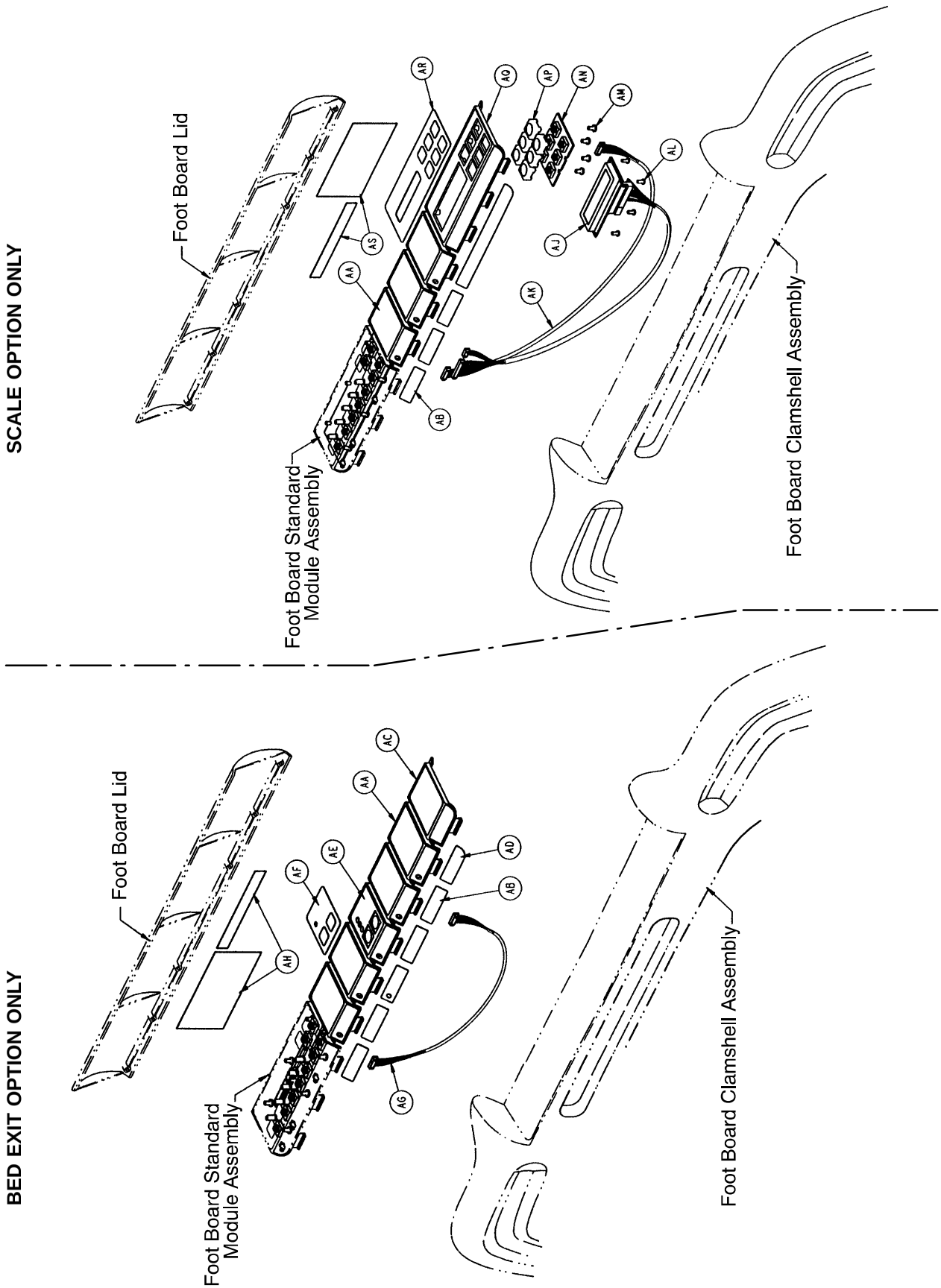


Item	Part No.	Part Name	Qty.
A	4–278	Button Hd. Screw	2
B	3001–400–550	Release Lever	1
C	3001–400–514	Release Lever Pad	1
D	3001–400–505	Pad Label	1
E	16–2	Nylock Nut	2

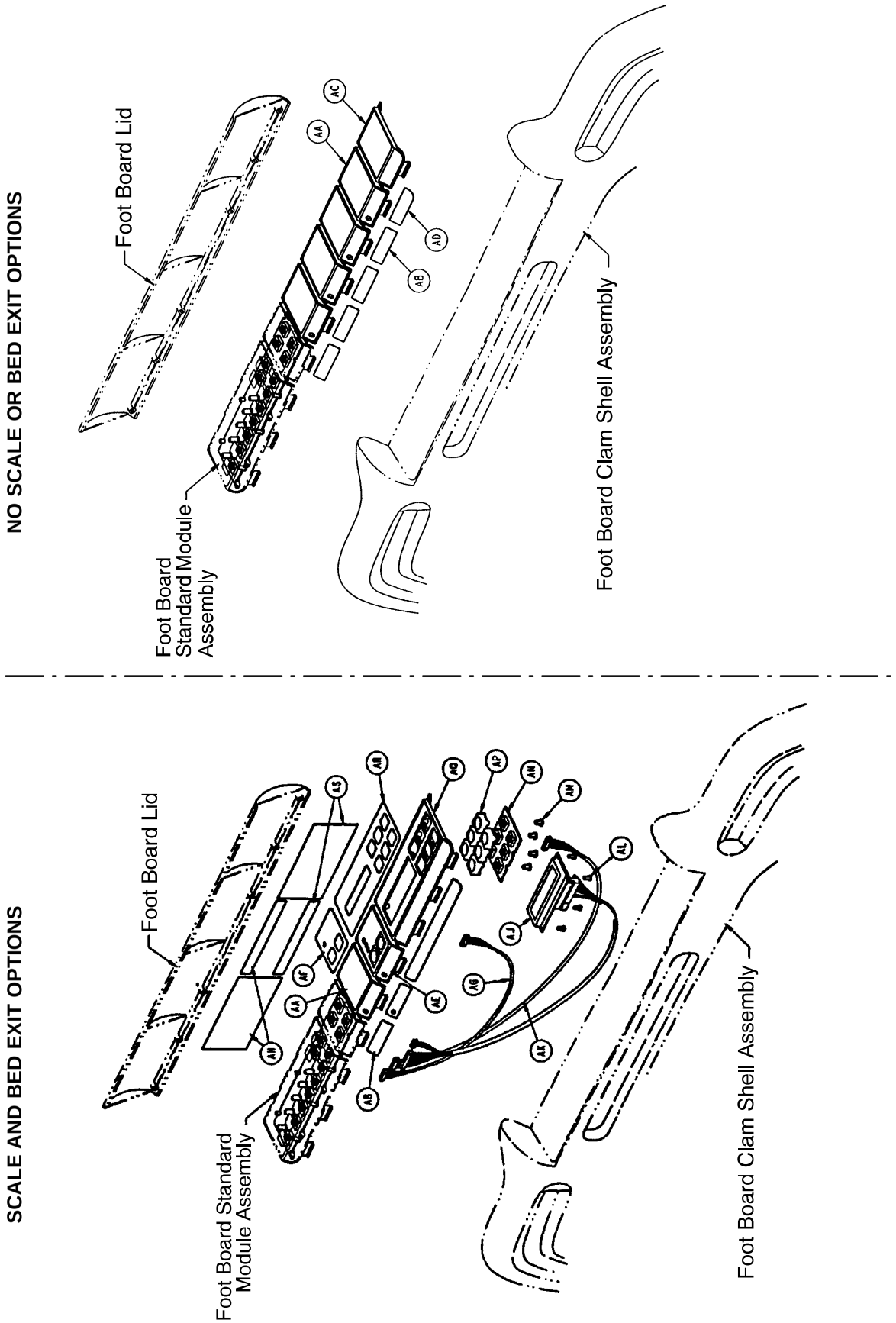
Foot Board Assembly



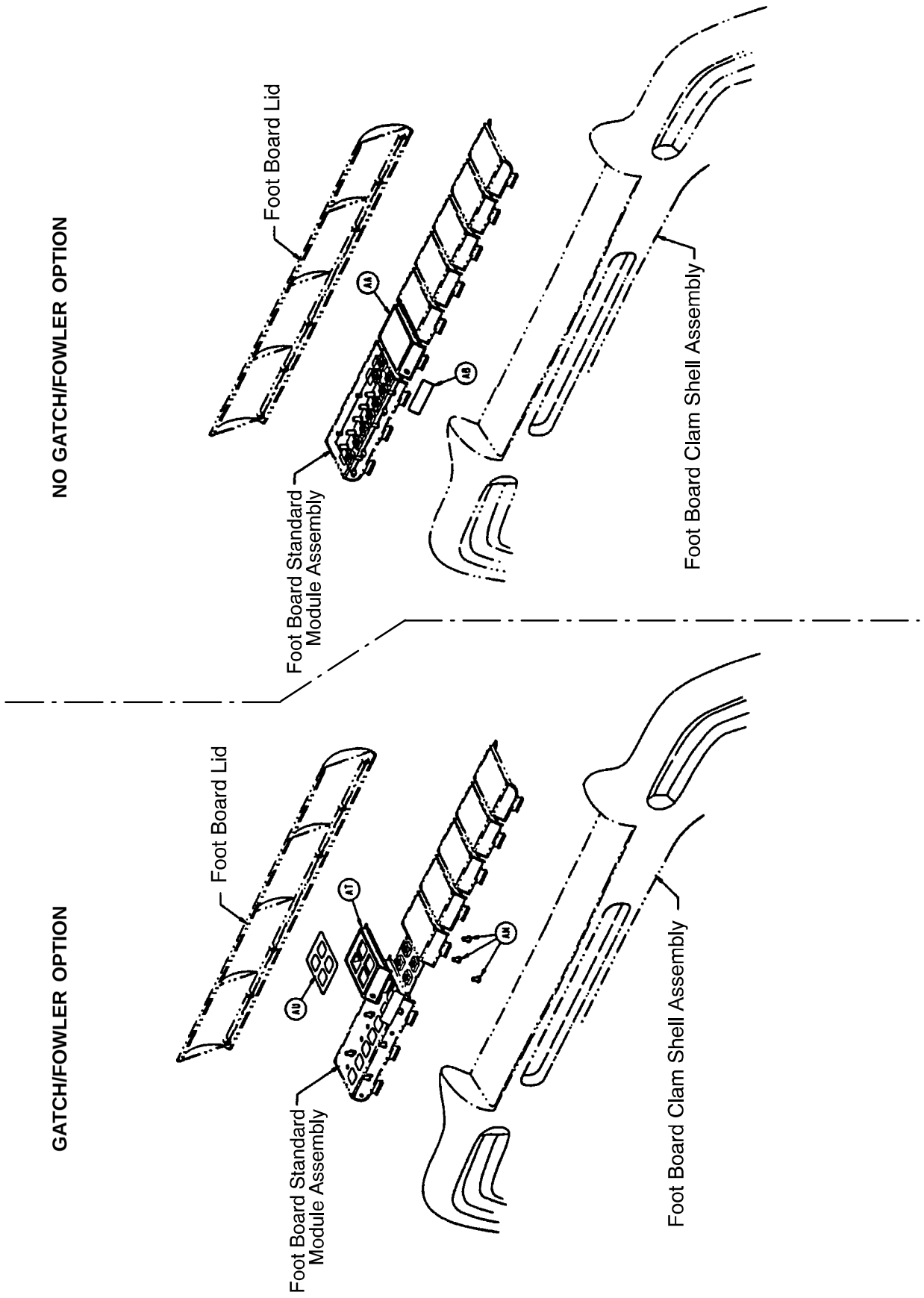
Foot Board Assembly



Foot Board Assembly



Foot Board Assembly



Foot Board Assembly

3001–500–000 Standard Components

Item	Part No.	Part Name	Qty.
A	3001–500–10	Clam Shell Assembly	1
B	3000–500–7	“C” Bumper	2
C	3000–500–6	Bumper Strip	2
D	50–39	Pan Hd. Mach. Screw	2
E	3000–500–29	Hazard Label	1
F	3001–500–64	Hinge Plate	1
G	23–99	Phillips Pan Hd. Screw	2
H	3001–500–28	Std. Control Module Ass’y	1
J	3001–500–1	Lid Assembly	1
K	3000–500–25	Lid Label	1
L	3001–500–801	Foot Board Drawer Cable	1
M	50–38	Pan Hd. Mach. Screw	2
N	23–103	Pan Hd. Hi–Lo Tap. Screw	7
P	3001–500–24	Ft. Bd. Std. Module Label	1
Q	3001–500–601	“Secure” Logo Label	1

3000–525–000 Chart/Constavac Hanger Option

Item	Part No.	Part Name	Qty.
BB	3000–525–1	Chart Rack	1
BC	3000–525–2	Chart Rod	1
BD	3000–525–4	Chart Rack Label	1

3000–525–10 No Chart/Constavac Hanger

Item	Part No.	Part Name	Qty.
BA	3000–500–8	Chart Rack Cover	1

3001–508–10 Bed Exit Option Only

Item	Part No.	Part Name	Qty.
AA	3001–500–3	Blank Module	4
AB	3000–500–26	Blank Module Label	4
AC	3000–500–4	End Module	1
AD	3000–500–27	End Module Label	1
AE	3001–508–30	Bed Exit Module Assembly	1
AF	3000–508–2	Bed Exit Module Label	1
AG	3001–508–800	Bed Exit Keypad Cable	1
AH	3000–508–11	Bed Exit Label	1

3001–507–10 Scale Option Only

Item	Part No.	Part Name	Qty.
AA	3001–500–3	Blank Module	3
AB	3000–500–26	Blank Module Label	3
AJ	3001–507–900	Scale LCD Display Cable	1
AK	3001–507–800	Scale Keypad Cable	1
AL	23–91	Pan Hd. Hi–Lo Tap. Screw	4
AM	23–87	Pan Hd. Hi–Lo Tap. Screw	4
AN	3001–507–910	Scale Keypad Assembly	1
AP	3001–400–953	Switch Cap	6
AQ	3001–507–1	Scale Module	1
AR	3001–507–2	Scale Module Label	1
AS	3001–507–11	Scale Label	1

3001–507–20 Scale and Bed Exit Options

Item	Part No.	Part Name	Qty.
AA	3001–500–3	Blank Module	4
AB	3000–500–26	Blank Module Label	4
AE	3001–508–30	Bed Exit Module Ass’y	1
AF	3000–508–2	Bed Exit Module Label	1
AG	3001–508–800	Bed Exit Keypad Cable	1
AH	3000–508–11	Bed Exit Label	1
AJ	3001–507–900	Scale LCD Display Cable	1
AK	3001–507–800	Scale Keypad Cable	1
AL	23–91	Pan Hd. Hi–Lo Tap. Screw	4
AM	23–87	Pan Hd. Hi–Lo Tap. Screw	4
AN	3001–507–910	Scale Keypad Assembly	1
AP	3001–400–953	Switch Cap	6
AQ	3001–507–1	Scale Module	1
AR	3001–507–2	Scale Module Label	1
AS	3001–507–11	Scale Label	1

3001–507–120 No Scale or Bed Exit Option

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

3001–501–10 Gatch/Fowler Option

Item	Part No.	Part Name	Qty.
AM	23–87	Pan Hd. Hi–Lo Tap. Screw	3
AT	3000–501–1	Gatch/Fowler Module	1
AU	3000–501–2	Gatch/Fowler Module Label	1

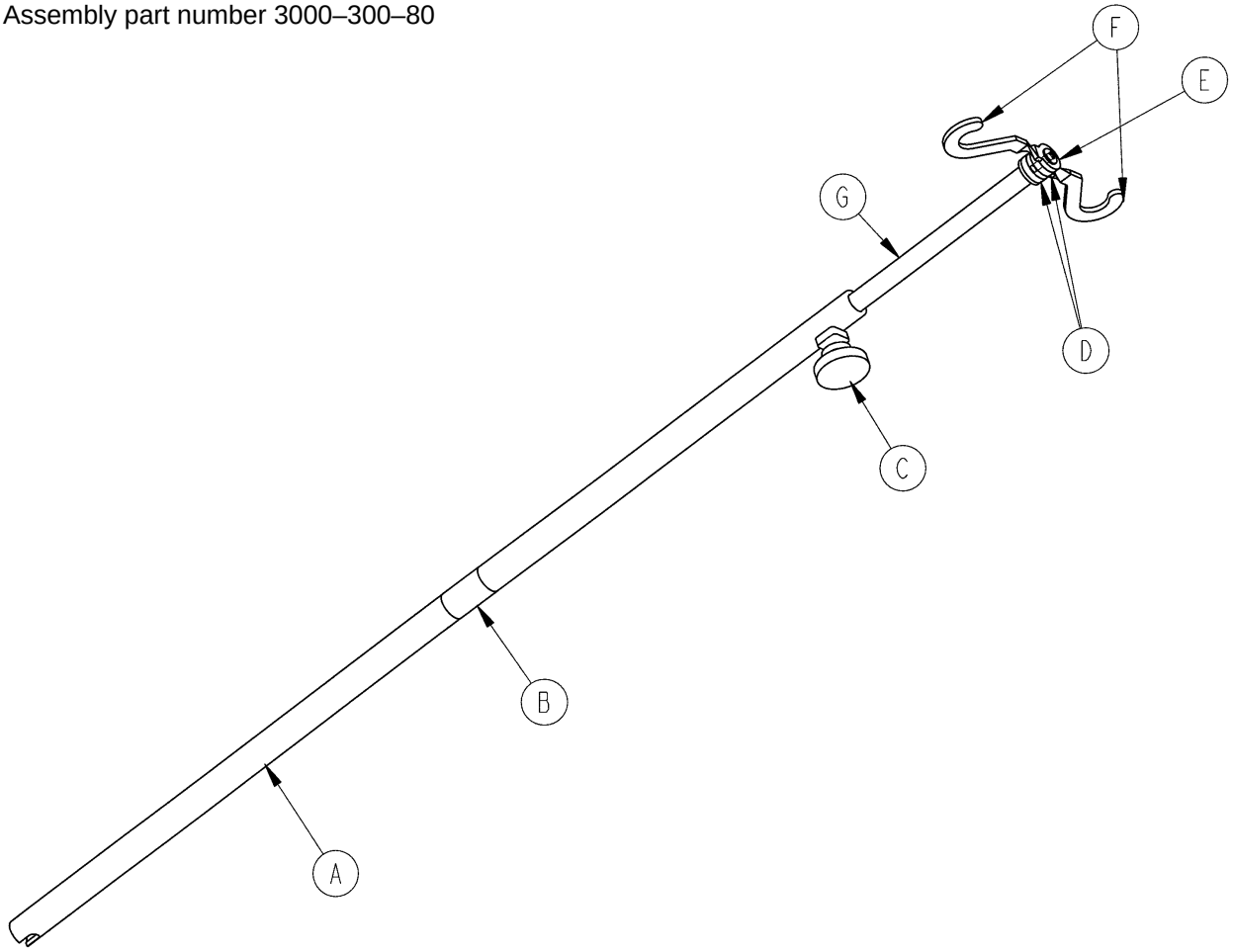
3001–501–110 No Gatch/Fowler Option

Item	Part No.	Part Name	Qty.
AA	3001–500–3	Blank Module	1
AB	3000–500–26	Blank Module Label	1

Notes

Removable I.V. Pole Assembly

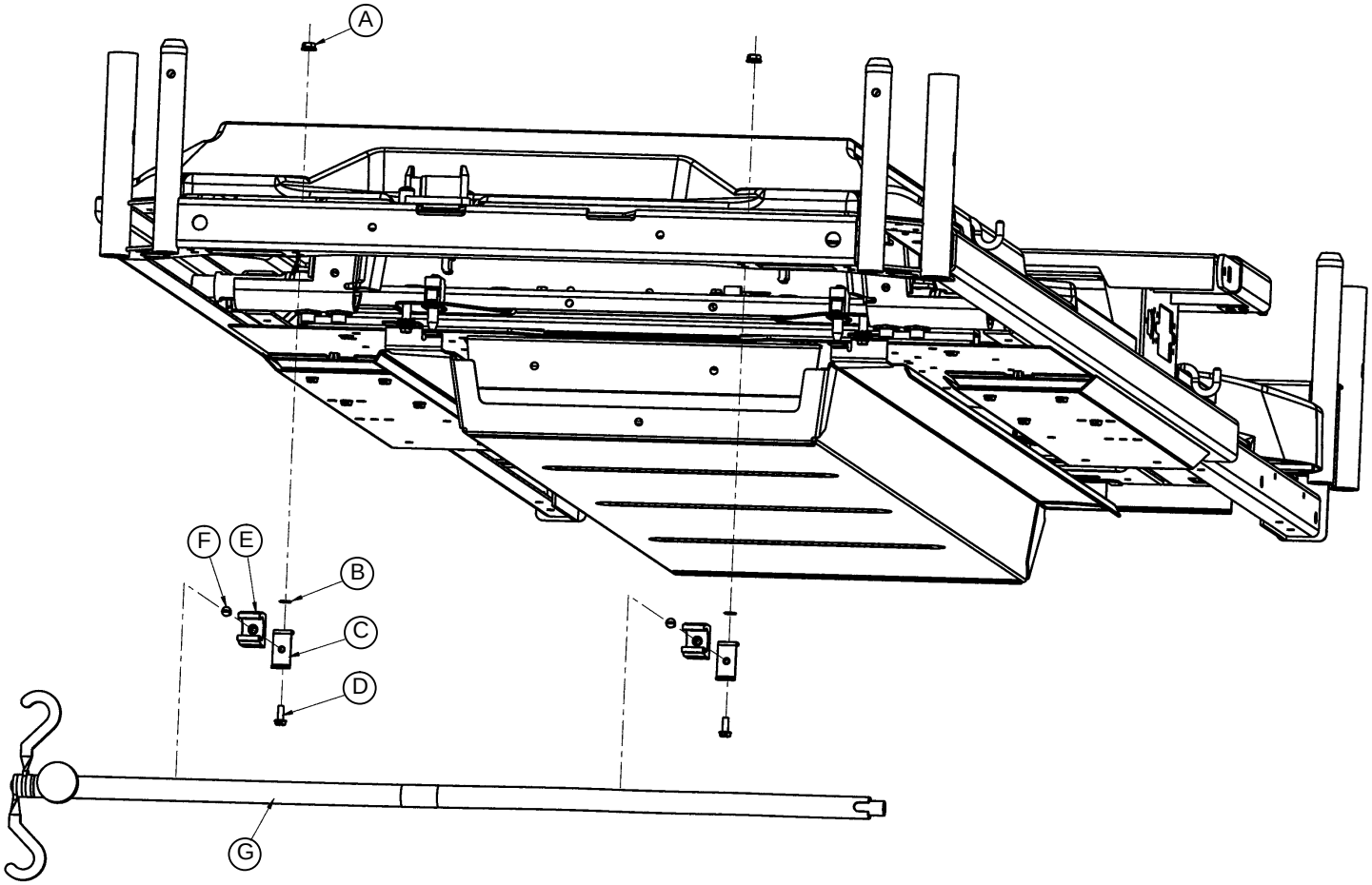
Assembly part number 3000–300–80



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

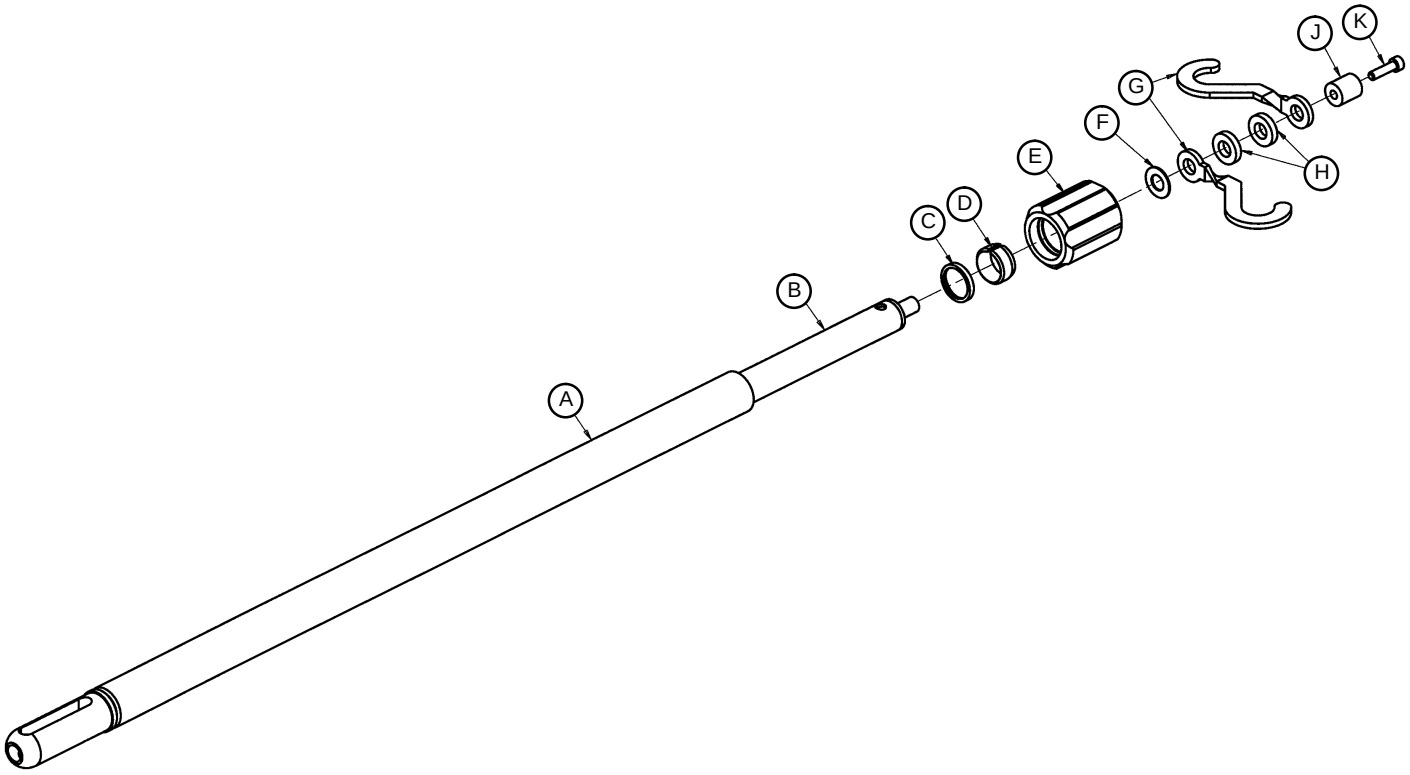
Removable I.V. Pole Mounting Assembly

Assembly part number 3000–338–10



Item	Part No.	Part Name	Qty.
A	6–74	Flange Nut	2
B	13–18	External Tooth Lock Washer	2
C	3001–300–87	Mounting Bracket	2
D	3–124	Hex Washer Hd. Screw	2
E	958–1–224	I.V. Clip	2
F	2–31	Round Hd. Screw	2
G	(page 184)	I.V. Pole Assembly	1

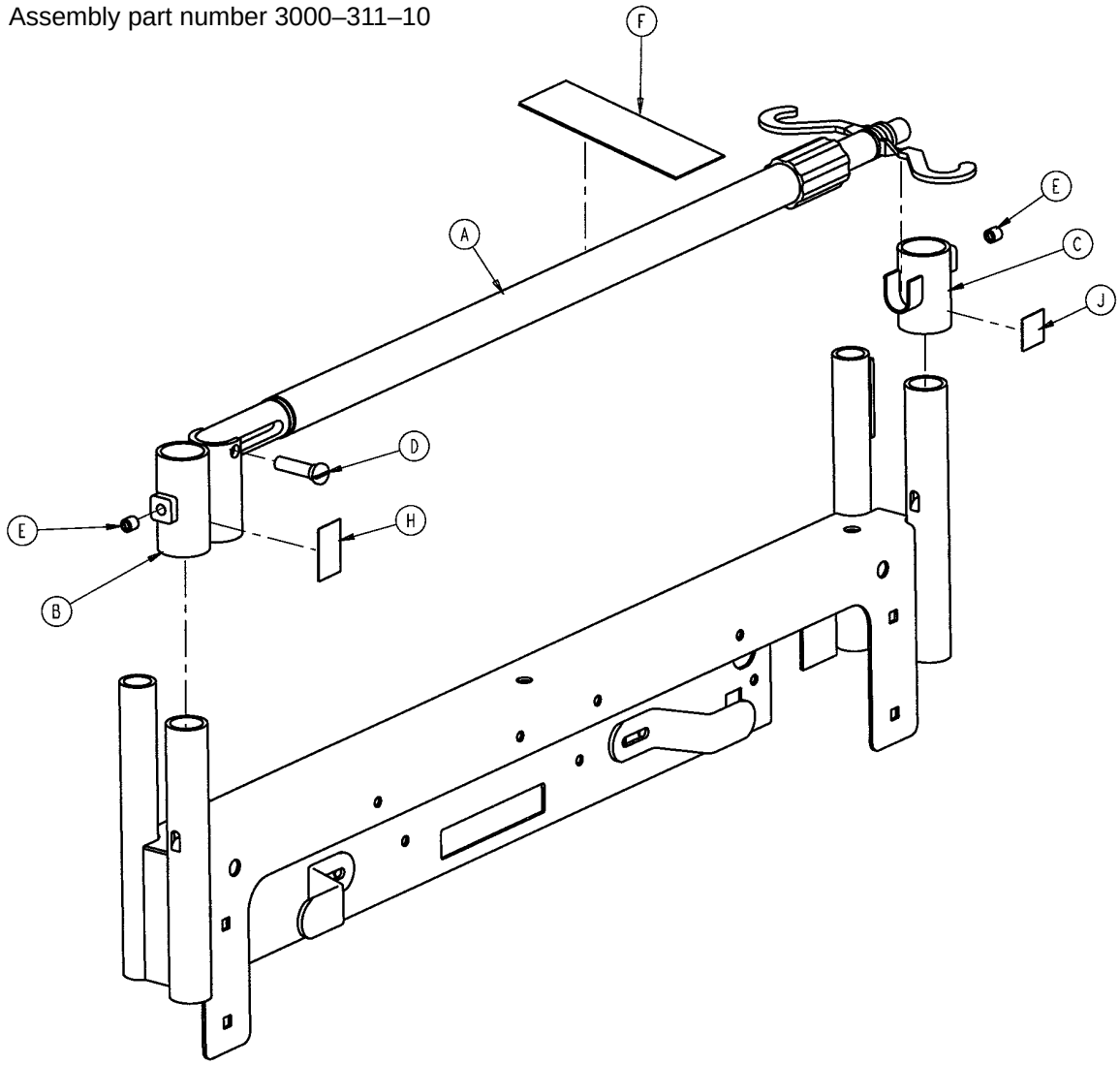
Permanently Mounted I.V. Pole Assembly



Item	Part No.	Part Name	Qty.
A	1010–59–24	Base Tube Assembly	1
B	1010–59–30	Extension Tube Assembly	1
C	1210–110–46	Back–Up Ring	1
D	1210–110–47	Lock Ring	1
E	1210–110–49	Actuator	1
F	14–20	Nylon Flat Washer	1
G	1010–59–16	I.V. Hook	2
H	52–17	Nylon Spacer	2
J	3000–311–19	End Spacer	1
K	4–8	Socket Hd. Cap Screw	1

Permanent I.V. Pole Mounting Ass'y, Head End

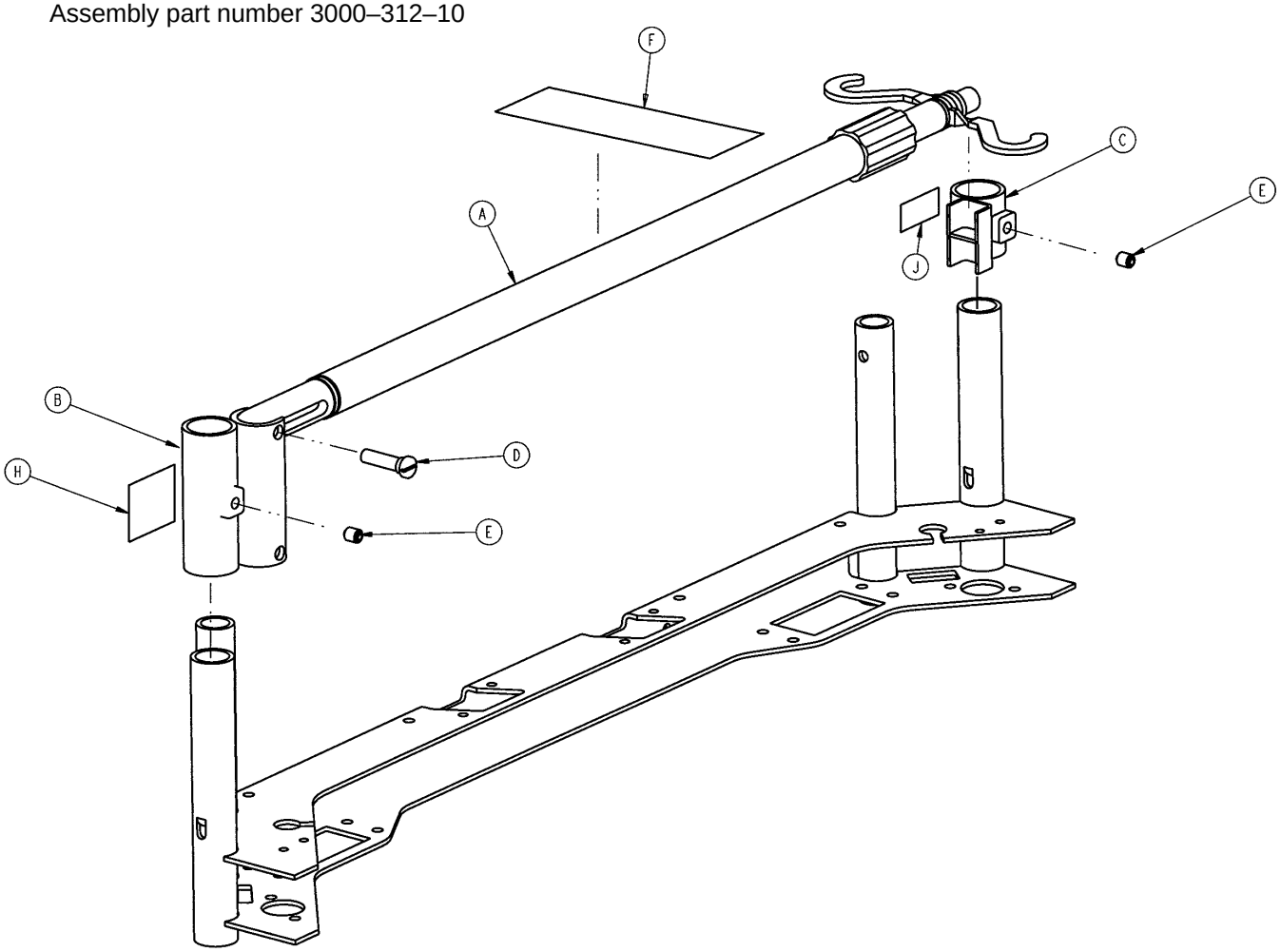
Assembly part number 3000–311–10



Item	Part No.	Part Name	Qty.
A	(page 186)	I.V. Pole Assembly	1
B	3000–311–11	I.V. Receptacle Assembly	1
C	3000–311–16	I.V. Rest Assembly	1
D	1015–24–35	Retaining Pin	1
E	21–140	Set Screw	2
F	3000–311–5	Spec. Label	1
H	3000–311–15	Receptacle Label	1
J	3000–311–6	Cradle Label	1

Permanent I.V. Pole Mounting Ass'y, Foot End

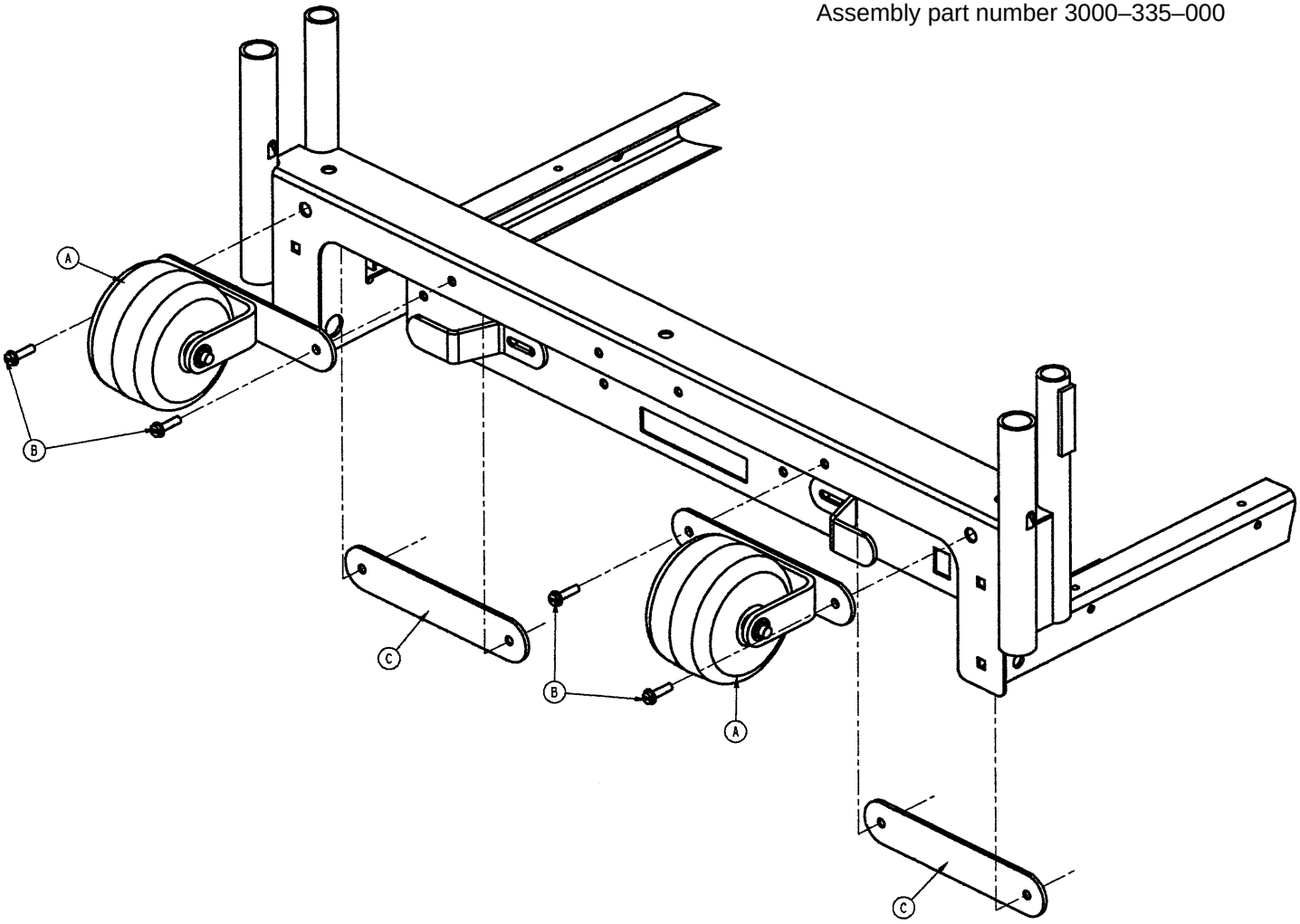
Assembly part number 3000–312–10



Item	Part No.	Part Name	Qty.
A	(page 186)	I.V. Pole Assembly	1
B	3000–312–11	I.V. Receptacle Assembly	1
C	3000–312–35	I.V. Cradle Assembly	1
D	1015–24–35	Retaining Pin	1
E	21–140	Set Screw	2
F	3000–311–5	Spec. Label	1
H	3000–312–7	Receptacle Label	1
J	3000–312–6	I.V. Cradle Label	1

Litter Roller Option Assembly

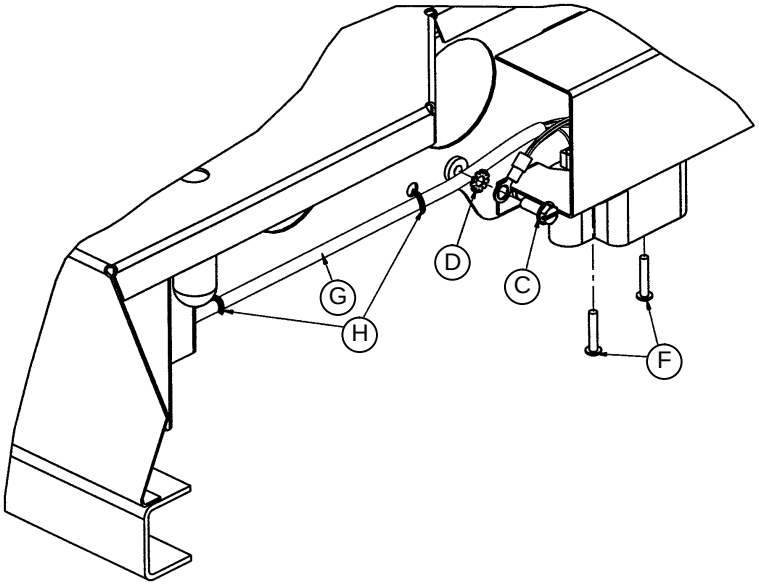
Assembly part number 3000–335–000

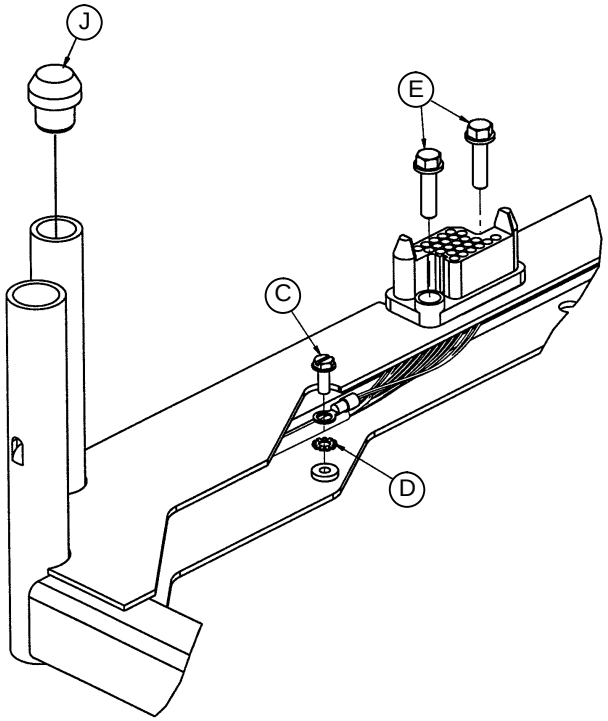


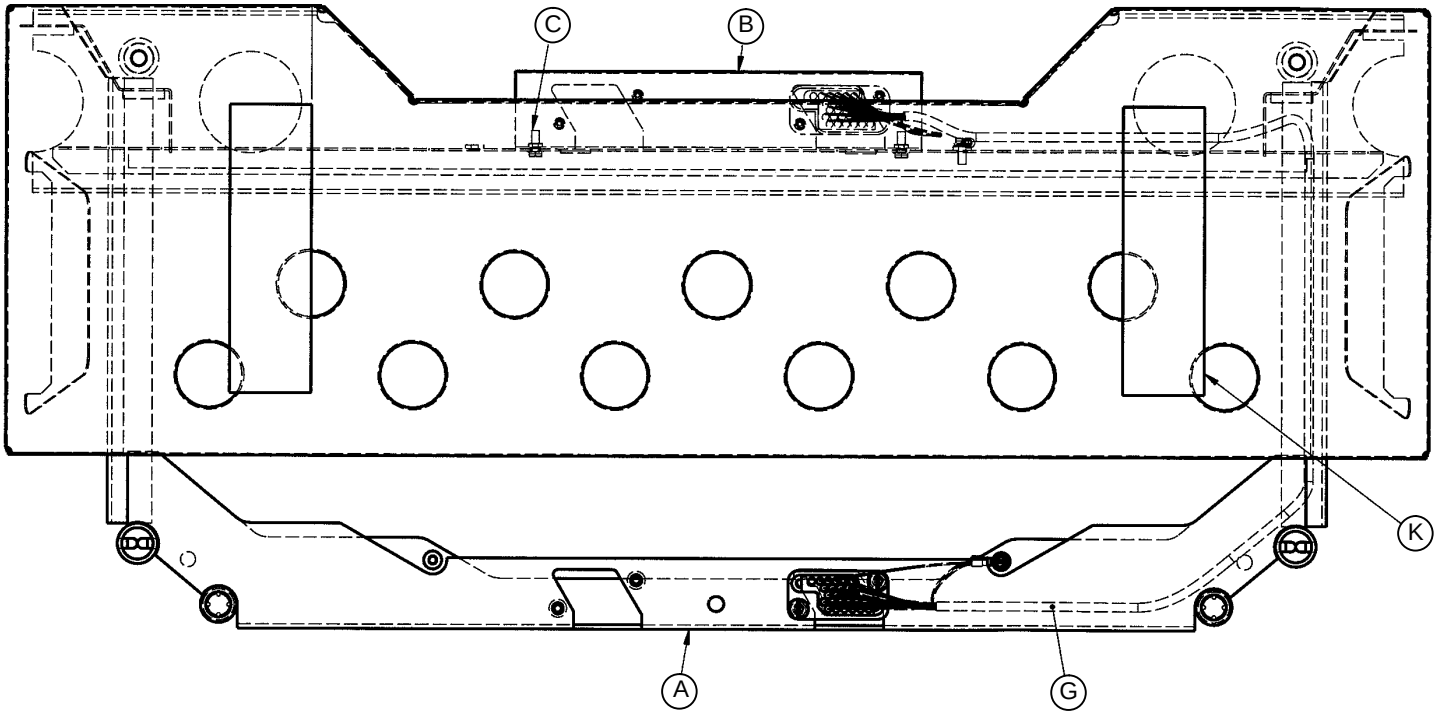
Item	Part No.	Part Name	Qty.
A	3000–335–5	Roller Assembly	2
B	3–132	Hex Washer Hd. Screw	4
C	3000–335–25	Roller Mounting Plate	2

Bed Extender Assembly

Assembly part number 3001–318–20





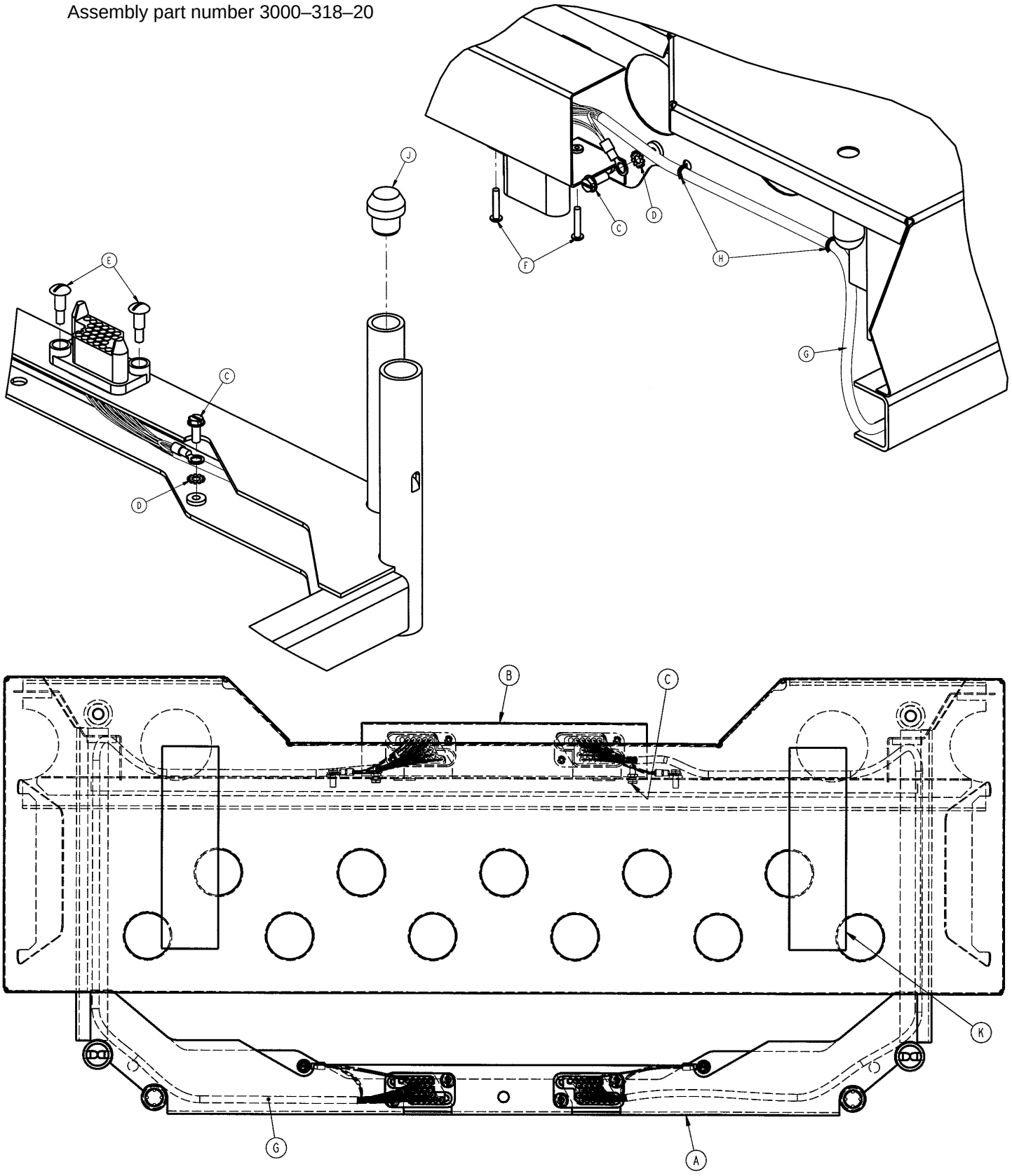


Bed Extender Assembly

Item	Part No.	Part Name	Qty.
A	3001–318–30	Bed Extender Weldment	1
B	3001–318–21	Connector Mounting Bracket	1
C	3–224	Hex Washer Hd. Screw	4
D	13–18	External Tooth Lock Washer	2
E	3001–200–228	Mounting Standoff	2
F	50–39	Pan Hd. Machine Screw	2
G	3000–318–801	Bed Extender Cable	1
H	3000–300–114	Cable Tie	2
J	3000–300–349	Cap	2
K	7900–1–102	Velcro Adhesive Pile	2

Bed Extender Assembly

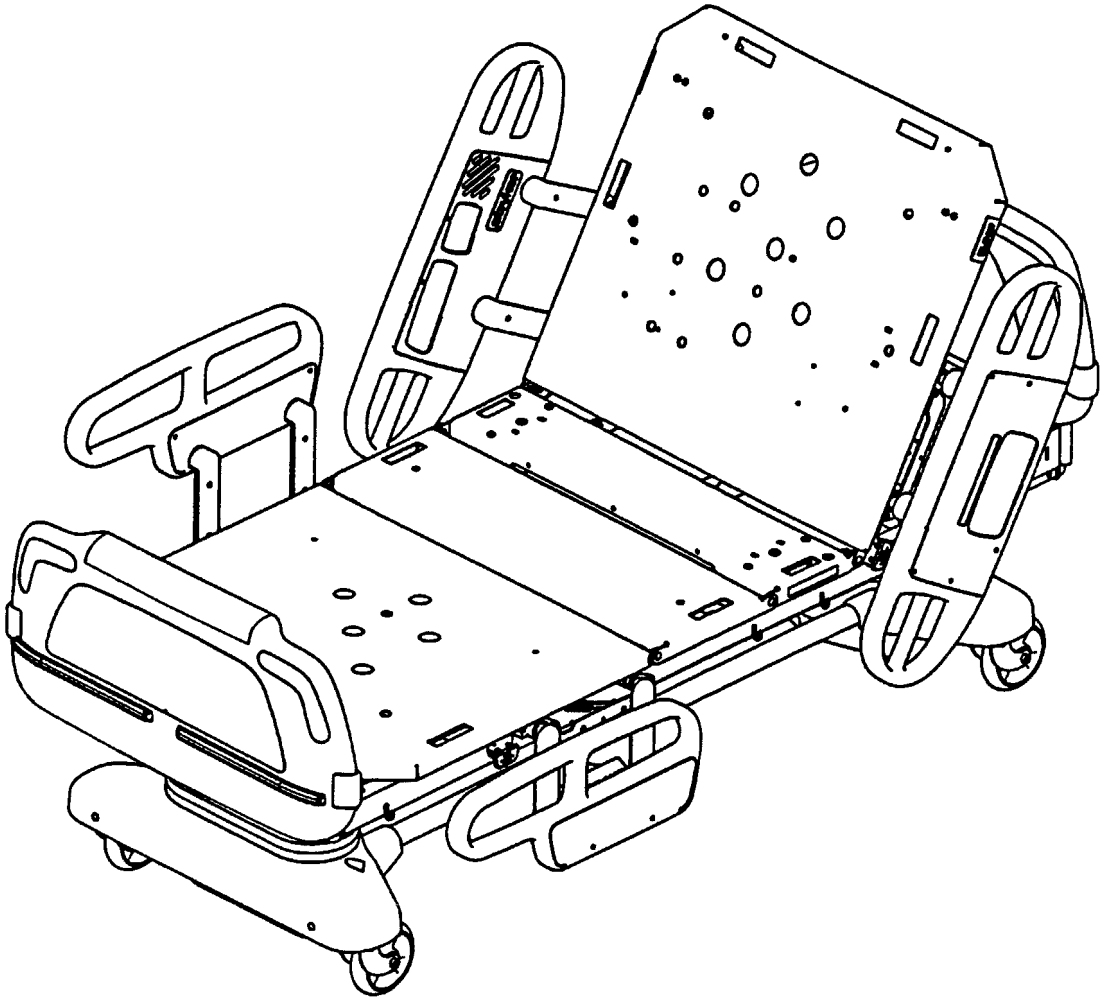
Assembly part number 3000–318–20



Bed Extender Assembly

Item	Part No.	Part Name	Qty.
A	3000–318–30	Bed Extender Weldment	1
B	3000–318–21	Connector Mounting Bracket	1
C	3–124	Hex Washer Hd. Screw	6
D	13–18	External Tooth Lock Washer	4
E	52–729	Truss Hd. Shoulder Screw	4
F	50–39	Pan Hd. Machine Screw	4
G	3000–318–801	Bed Extender Cable	4
H	3000–300–114	Cable Tie	4
J	3000–300–349	Cap	2
K	7900–1–102	Velcro Adhesive Pile	2

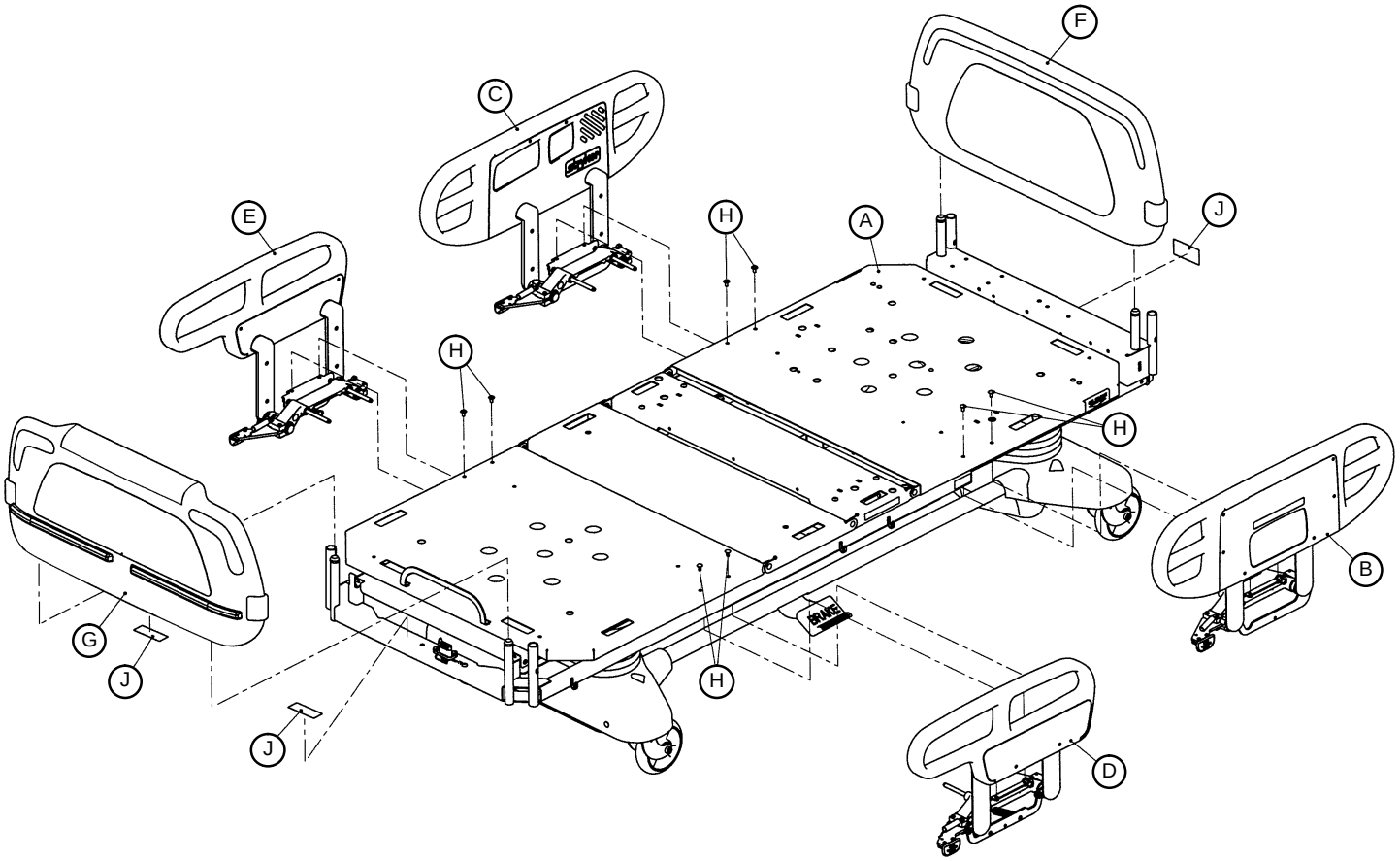
Bed Assembly



3001–000–101 Bed Assembly – Standard Components

Item	Part No.	Part Name	Qty.
A	(page 112–120)	Litter Assembly	1
B	(page 157–174)	Head, Left Siderail Ass'y	1
C	(page 157–174)	Head, Right Siderail Ass'y	1
D	(page 175–177)	Foot, Left Siderail Ass'y	1
E	(page 175–177)	Foot, Right Siderail Ass'y	1
F	3000–600–000	Head Board Assembly	1
G	(page 178–182)	Foot Board Assembly	1
H	7–52	Truss Hd. Screw	8
J	3000–300–625	Date–of–Man. Label	1
K	3–124	Hex Washer Hd. Screw	4
L	16–41	Kep–Nut	4
M	3000–300–113	Cable Tie	5
N	3000–300–477	CPR Conduit Stud	3
P	59–743	Wire Harness Clip	3
Q	23–25	Hex Washer Hd. Screw	1
R	52–94	Wire Harness Clip	1
S	3000–300–2	Plastic Clip Nut	1

Bed Assembly



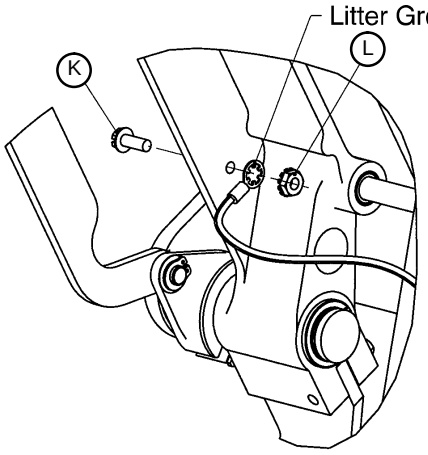
Bed Assembly – Standard Length Bed

Item	Part No.	Part Name	Qty.
A	(page 112–120)	Litter Assembly	1
B	(page 157–174)	Head, Left Siderail Ass'y	1
C	(page 157–174)	Head, Right Siderail Ass'y	1
D	(page 175–177)	Foot, Left Siderail Ass'y	1
E	(page 175–177)	Foot, Right Siderail Ass'y	1

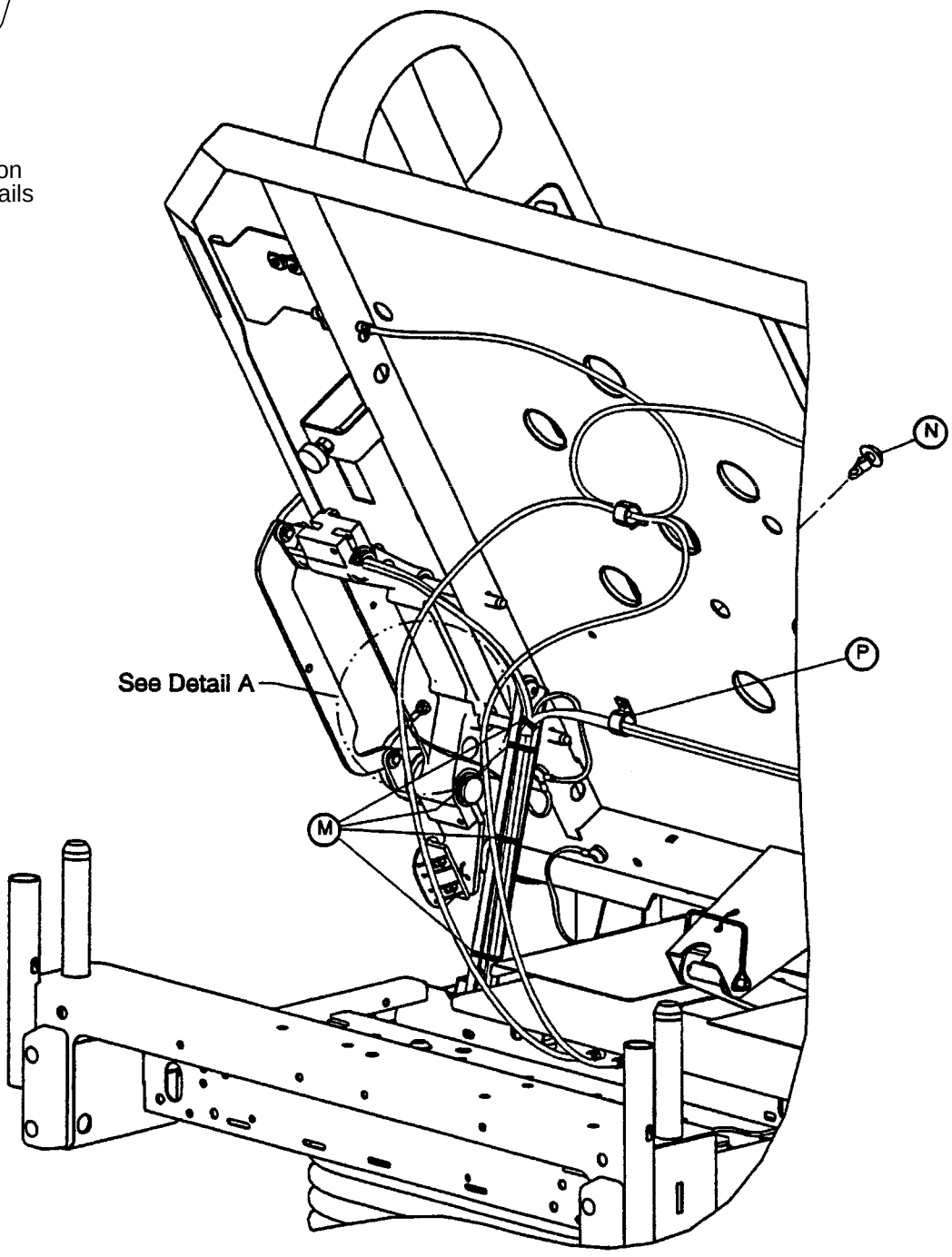
Bed Assembly – 8" Shorter Bed

Item	Part No.	Part Name	Qty.
A	(page 112–120)	Litter Assembly	1
B	(page 157–174)	Head, Left Siderail Ass'y	1
C	(page 157–174)	Head, Right Siderail Ass'y	1
D	(page 175–177)	Foot, Left Siderail Ass'y	1
E	(page 175–177)	Foot, Right Siderail Ass'y	1

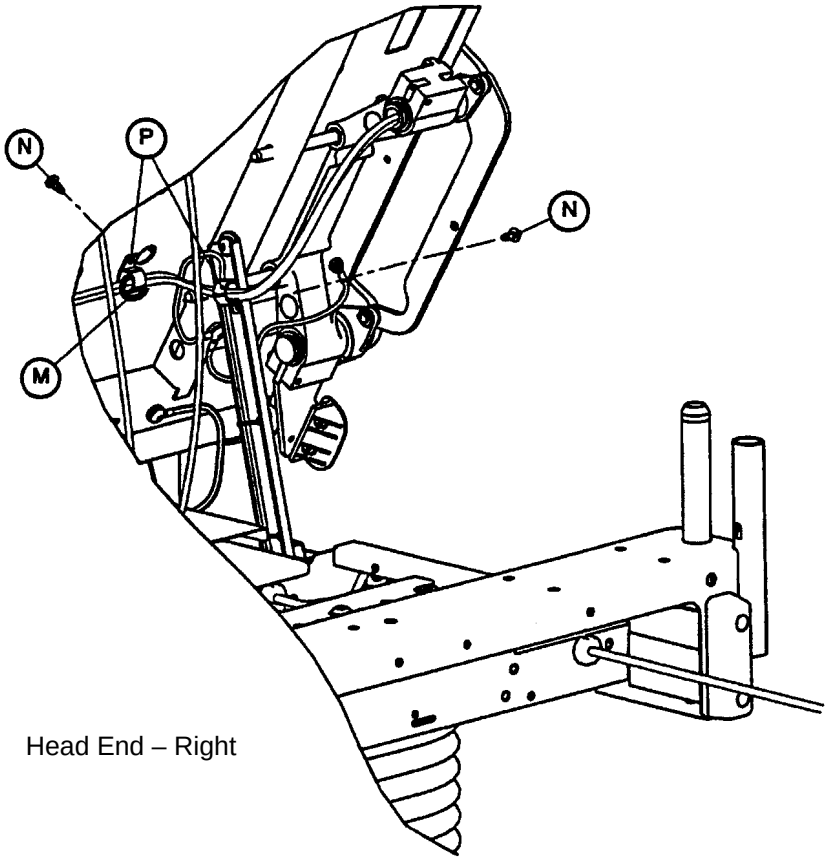
Bed Assembly



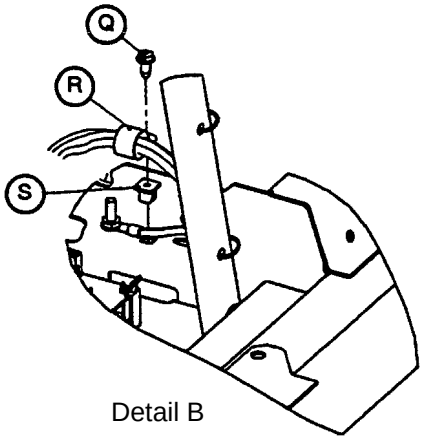
Detail A
Typical Ground Configuration
of Head and Foot End Siderails



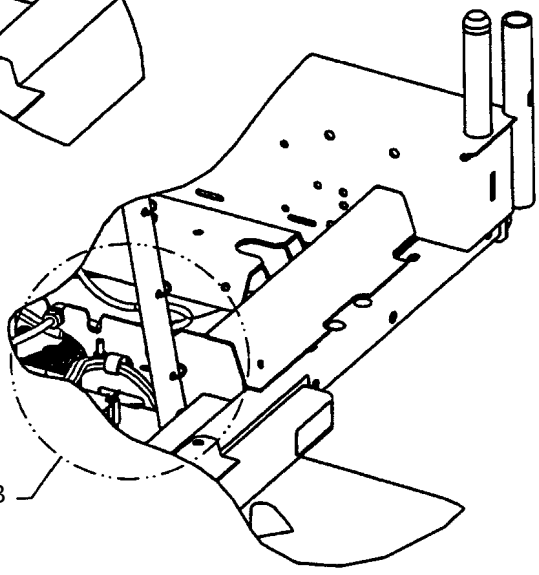
Bed Assembly



Head End – Right



Detail B



Head End – Left

See Detail B

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