Long Term Care MedSurg Bed

Model FL14E3

stryker®

Maintenance Manual

For Parts or Technical Assistance:
USA: 1-800-327-0770 (option 2)
Canada: 1-888-233-6888

Table of Contents

Table of Contents

Introduction

This Maintenance manual is designed to assist you with the servicing of the Stryker Model FL14E3 Long-Term Care Bed. It is important to read and understand all information in this manual before servicing the bed. Qualified service personnel should be able to refer to this manual at all times.

This Maintenance manual is an integral part of the bed and should be included if the bed is sold or transferred.

SPECIFICATIONS

Safe Working Load	159 kg (350 lb)
Overall Bed Length/Width (76”, 78”, 80” beds).	83 3/4” (213 cm) - 86 1/4” (219 cm) - 87 1/4” (222 cm) x 41 3/4” (106 cm) -siderails up 37” (94 cm) - siderails down
Fowler Angle	0˚ to 60˚
Knee Gatch Angle	0˚ to 30˚
Minimum/Maximum Bed Height (to top of mattress support centre section)	30 cm (12”) to 71 cm (28”)
Bed Stabilization System	Reverse Lock system (bed normally rests on its legs)
Overall Weight with Half-Length Siderails (4)	162 kg (357 lb)
Bed Exit System (Optional) Environmental Conditions - Transport and Storage - Ambient Temperature - Relative Humidity - Atmospheric Pressure Operation - Ambient Temperature - Relative Humidity - Atmospheric Pressure	 -40˚ to 70˚C (-40˚ to 158˚F) 10 to 100% 500 to 1060 hPa 18.3˚ to 26.7˚C (65˚ to 80˚F) 5 to 95% without condensation 700 to 1060 hPa
The FL14E3 bed meets the CAN/CSA C22.2 No. 601.1 standard.	˜120V, 60 Hz, 6A -Two 250V, 10A Fast Acting Fuses

TECHNICAL SUPPORT

For questions regarding this product, contact the following Technical Service Department or your local representative

Canada

Stryker Canada

1 888 233-6888

45, Innovation Drive

Hamilton, Ontario, L9H 7L8

Canada

United States

Stryker Medical

1 800 327-0770

3800, East Centre Avenue

Portage, MI 49002

USA

Return To Table of Contents

STATIC DISCHARGE PROTECTION

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

Static Protection Equipment:

- 1 static wrist strap
- 1 grounding plug
- 1 test lead with a banana plug on one end and an alligator clip on the other

Static Protection Procedure:

1. Unplug the bed 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 wrist strap on your wrist. Connect the clip at the other end of the wrist strap cord to a ground point on the bed.

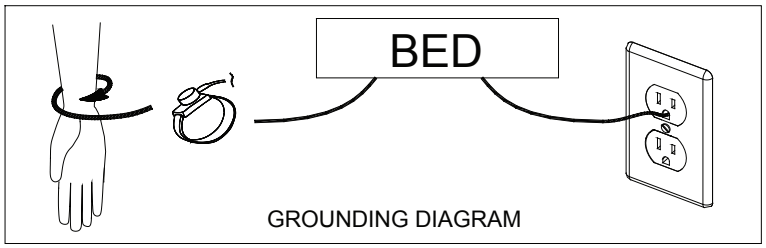


Figure 1.4

⚠ WARNING

Always unplug the bed power cord from the wall outlet when cleaning or servicing the bed. Ensure that any bed malfunction is immediately reported to service personnel for immediate attention. Unattended bed malfunctions could lead to mechanism failures, possibly causing injury to the patient or user.

BED AND MATTRESS CLEANING

⚠ CAUTION

Do not use harsh cleaners, solvents, detergents to clean the bed nor steam clean, hose off or ultrasonically to clean it. Do not immerse any part of the bed. Germicidal disinfectants, used as directed, and/or Chlorine Bleach products are not considered as mild detergents. These products are corrosive and may cause damage to your bed if used improperly. If these types of products are used, ensure that the beds are rinsed with clean water and dried following cleaning. If you do not properly rinse and dry the beds a corrosive residue will stay on the surface and will possibly cause premature corrosion of critical components. Failure to follow the above directions when using these types of cleaners may void the product warranty.

BED CLEANING

- Hand wash all surfaces of the bed with a soft cloth moistened with a solution of lukewarm water and a mild detergent.
- Wipe the bed clean and dry thoroughly to avoid build up of cleaning solution.

⚠ WARNING

Inspect the mattress after each use. Stop using the bed if any cracks or rips are found in the mattress cover that may allow fluid to enter the mattress. Failure to properly clean the mattress or dispose of it if defective may increase the risk of exposure to pathogenic substances and may bring about diseases to the patient and/or user.

INSPECTION

- Implement local policies to address regular care, maintenance, and cleaning of mattresses and covers. The cover cleaning procedure can be found below and on the mattress label.
- Inspect mattress cover surface (also zip fasteners and cover inner surface if mattresses have zip fasteners) regularly for signs of damage. If the mattress cover is heavily stained or soiled, or is torn, remove the mattress from service.

CLEANING

- Stains: Wash with lukewarm water using a mild detergent. Rinse with water and let dry. For tough stains, use bleach diluted with ten parts of water

LUBRICATION

Lubrication should be carried out on a yearly basis. Lubricate all mobile components of the bed: Pivot points, sliding contact surfaces, etc. See following figure illustrating the lubrication points.

⚠ WARNING

The use of grease other than the one recommended (OG2 grease) could lead to deterioration of critical parts and to mechanism system. This could cause injuries to the patient or user and damage the bed.

Return To Table of Contents

Symbols

Warning, Refer to Service/Maintenance Manual

~ Alternating Current

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

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

Mode of Operation: Continuous

IPX4: Protection from liquid splash

Dangerous Voltage Symbol

Protective Earth Terminal

Potential Equalization Symbol

Medical Equipment Classified by Underwriters Laboratories Inc. with Respect to Electric Shock, Fire, Mechanical and Other Specified Hazards Only in Accordance with UL 60601–1, First Edition (2003) and CAN/CSA C22.2 No. 601.1–M90 with updates 1 and 2.

Safe Working Load Symbol

In accordance with European Directive 2002/96/EC on Waste Electrical and Electronic Equipment, this symbol indicates that the product must not be disposed of as unsorted municipal waste, but should be collected separately. Refer to your local distributor for return and/or collection systems available in your country.

Return To Table of Contents

⚠ CAUTION

The FL14E3 bed uses oil-impregnated shoulder spacers. Do not lubricate these shoulder spacers. When shoulder spacers are found worn, they must be replaced.

LUBRICATION POINTS

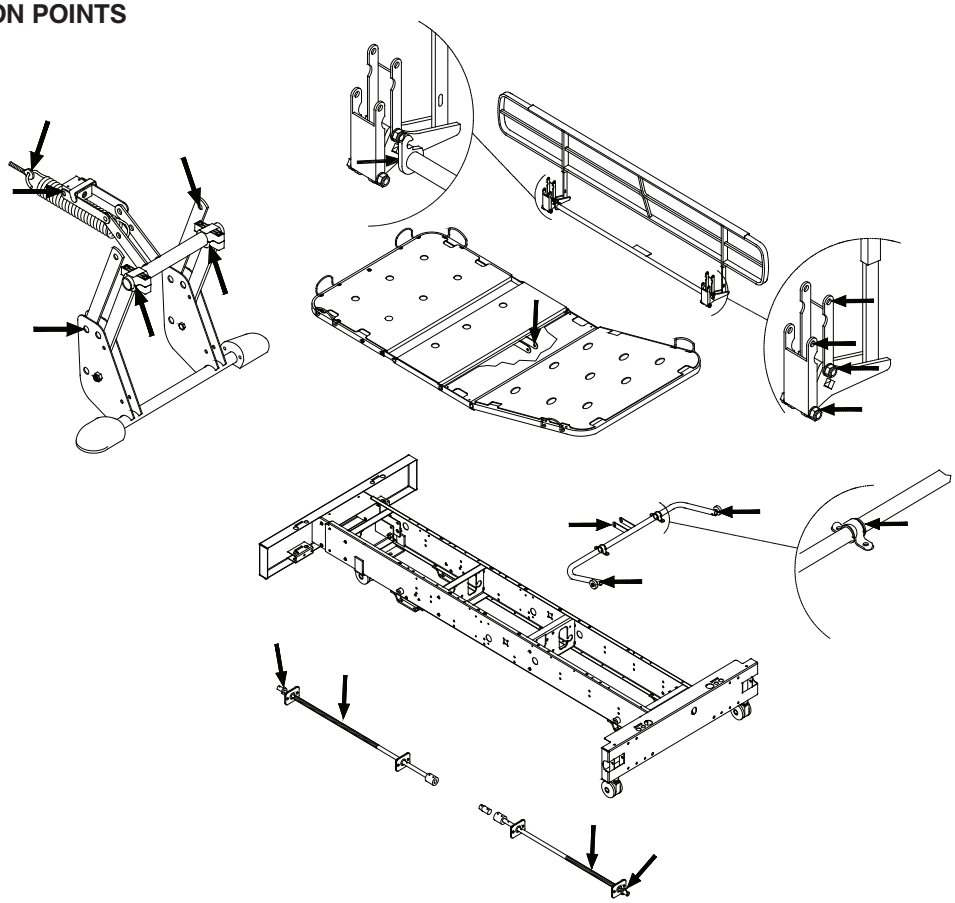


Figure 2.2

PREVENTATIVE MAINTENANCE PROGRAM

⚠ WARNING

Only field technician from Stryker or service personnel trained by Stryker should perform the procedures detailed in this maintenance manual, especially those related to the Bed Exit system. Failure to observe this restriction can result in serious damage to material and/or severe injury to the patient or operator. When in service, use only identical replacement parts provided by Stryker. Depending on the level of use of the bed, it may be necessary to proceed with the preventative program more than once a year.

Return To Table of Contents

CHECKLIST

_____ Inspection of all fasteners: bolts, locknuts and screws (Fiigure 2.3). Tighten if necessary. Pay special attention to the pivot points of the Hi-Lo levers of the bed. Their fasteners must be tightened as specified below:

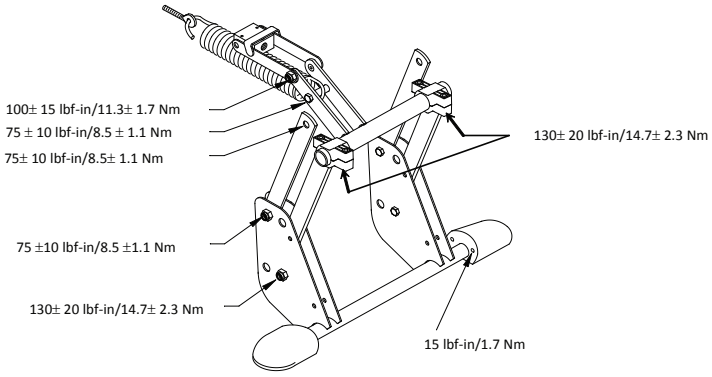


Figure 2.3

_____ Inspection and lubrication as needed of all lubrication points (see figure 2.2 previous page).

_____ Inspection for excessive wear of all oil-impregnated bronze shoulder spacers found in the following components of the bed. Replace as needed.

_____ Linkage of the mattress support sections together.

_____ Hi-Lo lever mechanism.

_____ The green On/Off LED goes on when the foot end control panel On/Off switch is turned on.

_____ All the foot end control panel functions working properly.

_____ Zero the Bed Exit system and check that all the bed areas react when the system is activated. Also, make sure that the Bed Exit connection cable (optional) is intact and carries the alarm signal to the nurse desk. If any problems are found during the verification of the Bed Exit system.

_____ Bed lowering on its casters using the bed-on-casters function working properly:

_____ The bed-on-casters LED goes on when the bed rests on its casters and goes off when the bed is brought back onto its legs.

_____ Pendant control (optional) working properly.

_____ Siderails move and latch properly in high position, adjust if necessary.

_____ Foot support arm intact and working properly.

_____ No cracks or splits in head and foot boards.

_____ Head end bumpers tightly secured to frame and working properly.

_____ No rips or cracks in mattress cover.

_____ All casters operate properly.

_____ Emergency crank (optional) working properly.

_____ Night light (optional) working properly.

_____ Power cord cable not frayed. No cables worn or pinched. All electrical connections tight. All ground secured to the frame.

_____ Bed current leakage and grounding continuity measures meet the correct values for the bed. Check with the Technical Service Department for the acceptable values.

Bed Serial Number:		

Completed by: _____ Date: _____

Return To Table of Contents

⚠ WARNING

Always unplug the bed power cord from the wall outlet when cleaning or servicing the bed. Always place blocks under the sleep surface and lock the casters to prevent injury when working under the bed with the bed in the high position.

Note

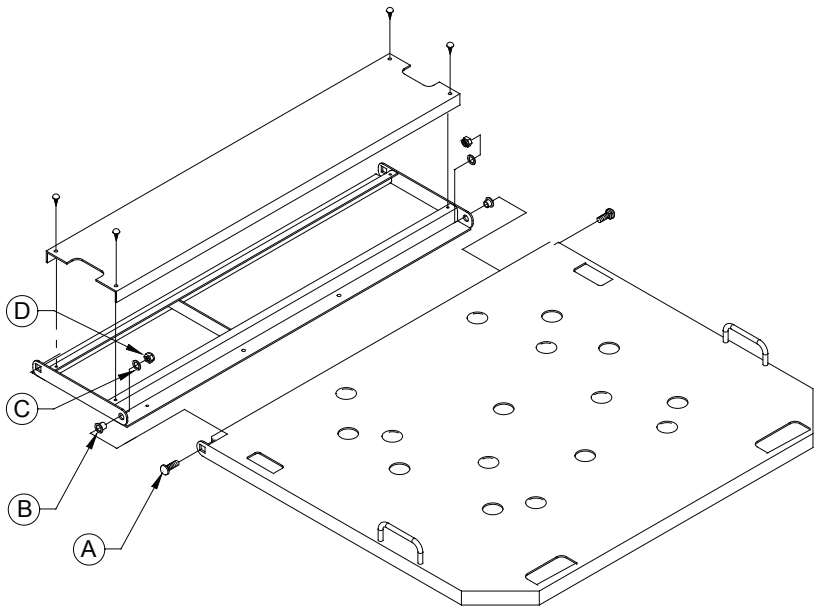
The words “right” and “left” refer to the left and right sides of a patient lying face up on the bed.

HEAD SECTION REPLACEMENT

Required Tools:

- 1/2” Socket and Ratchet 7/16”
- Socket and Ratchet (if head half-length siderails present)
- Phillips Screwdriver

1. If the bed is equipped with half-length siderails, remove the two head siderail assemblies attached to the head section. To do so, refer to step 7 to 11 of the “Head half-length siderail” replacement procedure.
2. Using a 1/2” socket and ratchet, remove the two bolts (A), shoulder spacers (B), flat washers (C) and locknuts (D) linking the head section to the centre section and remove the damaged head section.
3. Check the shoulder spacers (B) for wear and replace as needed.
4. Using the screwdriver, transfer the parts from the damaged head section to the new section. Replace as needed
5. Reverse the above steps to install the new head section.
6. Check the movement of the head section before returning the bed to service.

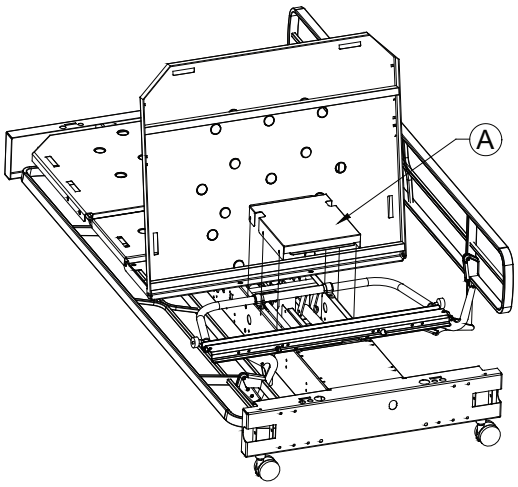


Return To Table of Contents

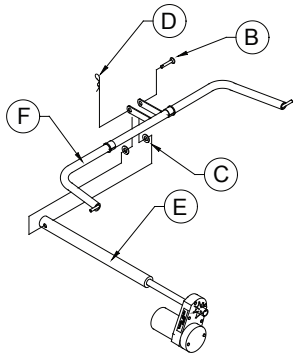
HEAD SECTION LEVER REPLACEMENT

Required Tools:

- Phillips Screwdriver
- Long Nose Pliers 1/2”
- Wrench 1/2”
- Socket and Ratchet
- Pliers
- OG2 Grease



1. Lower the head section to horizontal position.
2. Unplug the bed power cord.
3. Pull the head section upwards and attach it to the bed to secure its position.
4. Remove the screws and the plate (A) covering the head section lever



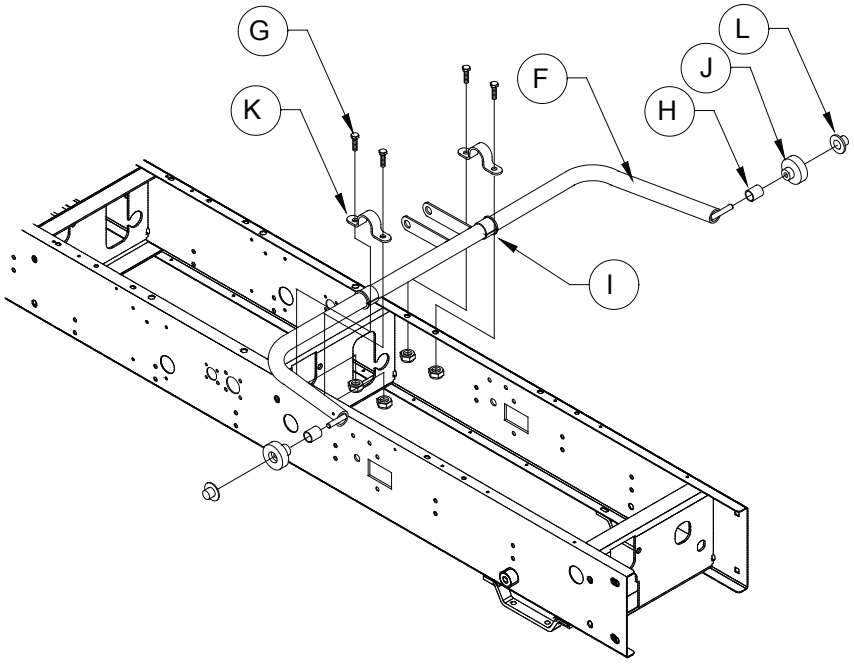
5. Remove the clevis pin (B), nylon washers (C) and Rue ring cotter (D) hooking the head actuator tube (E) to the head section lever (F). As far as possible, do not rotate the actuator tube to preserve its adjustment.

Note

Support the tube while removing the clevis pin to prevent it from falling on the PC Board. Apply grease on the clevis pin before installing it.

Return To Table of Contents

HEAD SECTION LEVER REPLACEMENT (Continued)



6. Remove the four bolts and locknuts (G) holding the head section lever (F) to the frame.
7. Remove the damaged lever. Remove from the damaged lever, the two caps (L, which will have to be replaced). Keep the nylon wheels (J), bushings (H, I) and lever clamps (K) for the replacement lever. Replace damaged parts.
8. Assemble on the new lever the parts taken from the damaged lever. Apply grease on the lever clamp bushings (I).
9. Reverse the above steps to install the new head section lever. Do not insert the clevis pin for the moment.

⚠ CAUTION

It is important that the head actuator course be properly adjusted, improper adjustment could damage the head section structure.

10. Follow steps 10 to 15 of the “Head section actuator” replacement to adjust the head actuator course.

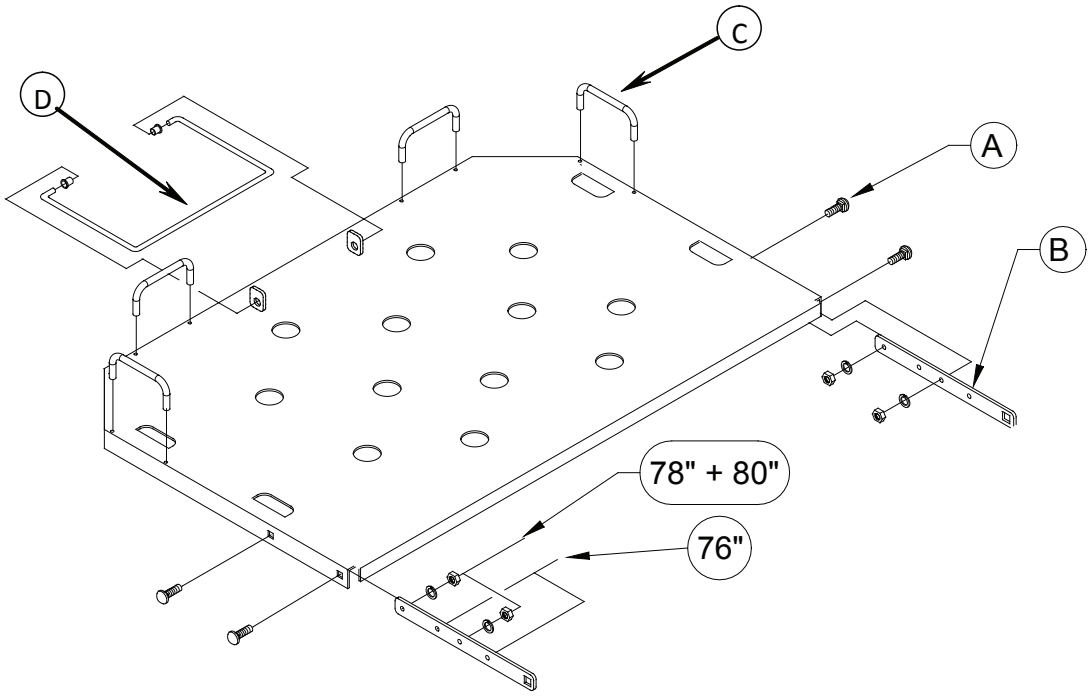
Return To Table of Contents

FOOT SECTION REPLACEMENT

Required Tools:

- 1/2” Socket and Ratchet
- Phillips Screwdriver

1. Remove the four bolts, washers and jam nuts (A) holding the foot section to the extension plates (B) and replace the damaged foot section.
2. Transfer the mattress retainers (C) from the damaged foot section to the new section. Replace parts as needed. Also transfer the foot section support arm (D).
3. Reverse the above steps to install the new foot section on the extension plates (B) at the desired length: 76” or 78” and 80”.
4. Check the movement of the foot section before returning the bed to service.



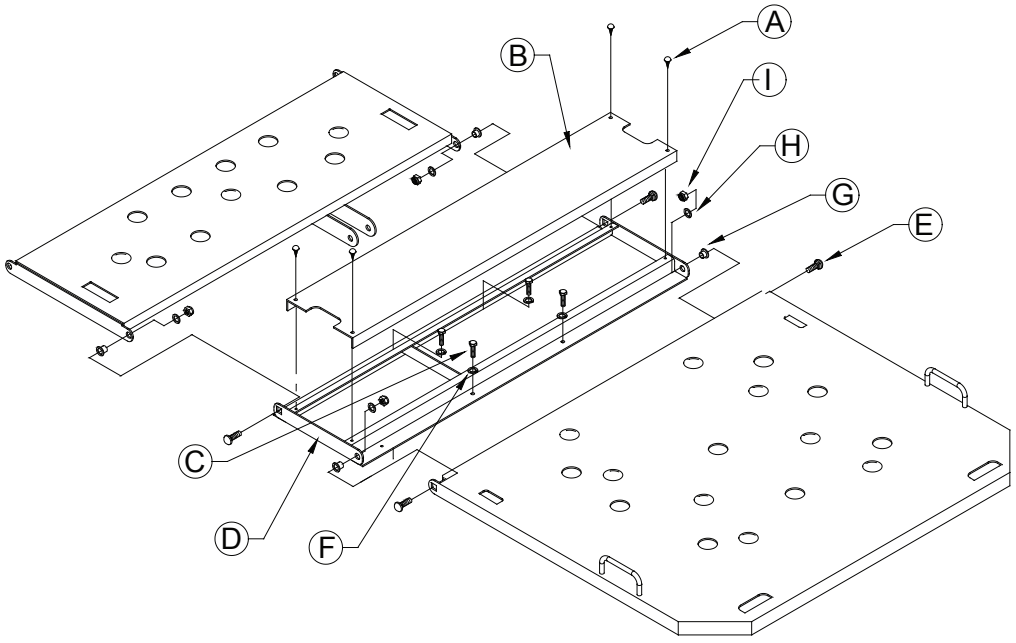
Return To Table of Contents

CENTER SECTION REPLACEMENT

Required Tools:

- Phillips Screwdriver
- 1/2” and 7/16” Sockets with Ratchet

1. Remove the four screws (A) from the centre section cover plate (B) and remove the plate.
2. Remove the four bolts (E), shoulder spacers (G), washers (H) and nuts (I) linking the centre section (D) to the head and thigh sections.
3. Check the shoulder spacers (G) for wear and replace as needed.
4. Remove the four bolts (C) and spring washers (F) holding the centre section (D) to the bed frame and remove the damaged centre section.
5. Install the new centre section and fasten it to the bed frame with the four bolts (C). Do not tighten the bolts yet.
6. Attach the head and thigh sections to the centre section (D) with the four bolts (E) and tighten them.
7. Align the mattress support assembly with the frame and tighten the bolts (C).
8. Install and attach the cover plate (B).

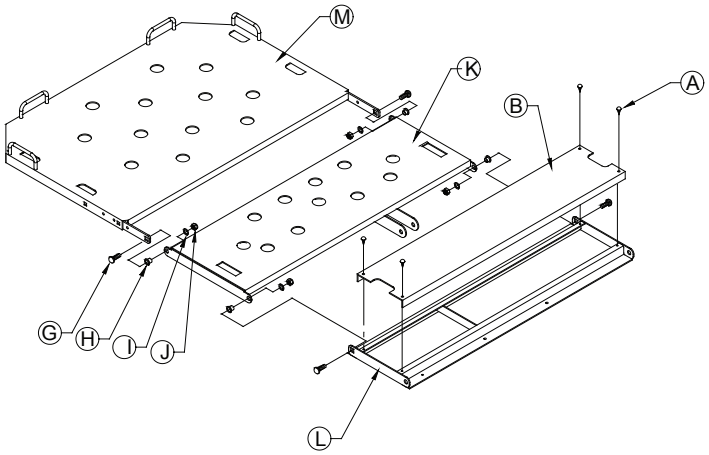


Return To Table of Contents

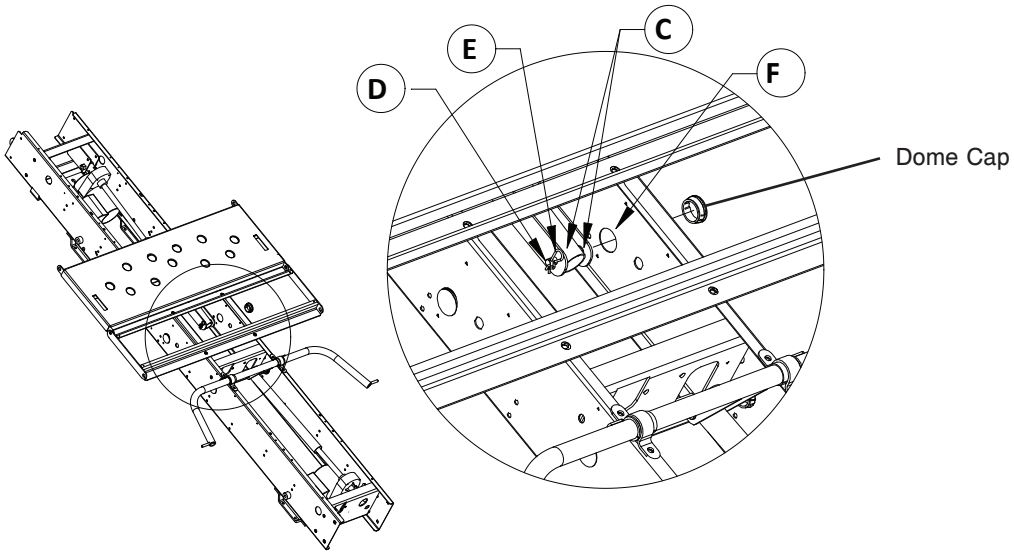
THIGH SECTION REPLACEMENT

Required Tools:

- Phillips Screwdriver
- Long Nose Pliers 1/2”
- Socket and Ratchet 1/2"
- OG2 Grease



1. Lower the thigh section to horizontal position.
2. Unplug the bed power cord.
3. Remove the screws (A) from the centre section cover plate (B) and remove the plate.



4. Through the opening on the side of the bed frame (F) (after having removed the dome cap) use the long nose pliers to remove the clevis pin (D), the nylon washers (C) and the Rue ring cotter (E) hooking the thigh section to the thigh actuator tube

Note

Support the tube while removing the clevis pin to prevent it from falling on the PC Board. Apply grease on the clevis pin before installing it.

5. Remove the four bolts (G), shoulder spacers (H), washers (I) and locknuts (J) linking the thigh section (K) to the centre (L) and foot (M) sections.
6. Check the shoulder spacers (H) for wear and replace as needed.
7. Remove the damaged thigh section (K).
8. Reverse the above steps to install the new thigh section.
9. Check the movement of the thigh section before returning the bed to service.

Return To Table of Contents

HEAD SECTION ACTUATOR REPLACEMENT

Required tools:

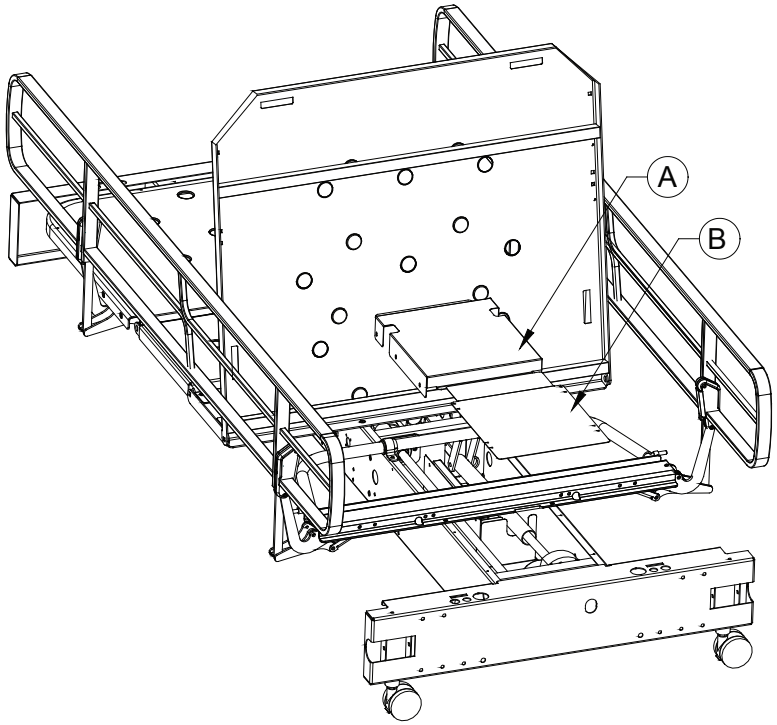
- Phillips Screwdriver
- Long Nose Pliers
- 3/4” Socket and Ratchet
- OG2 Grease
- Thread Locker (Medium Strength)

1. Lower the head section to horizontal position.
2. Unplug the bed power cord.
3. Pull the head section upwards and attach it to the bed to secure its position.
4. Remove the screws and the cover plates (A, B) under the head section.

Note

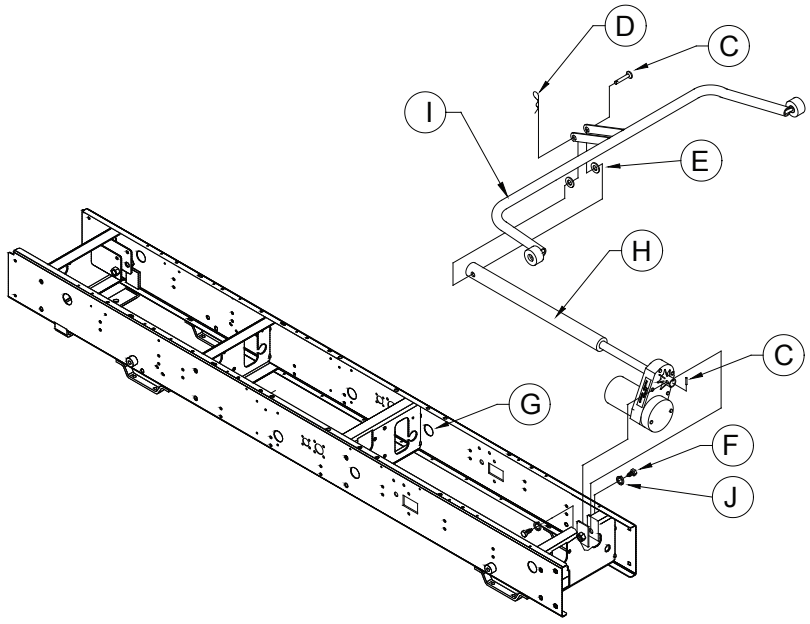
The cover plate configuration may vary depending on the type of siderails equipping the bed.

5. Disconnect the head actuator cable. The plug is near the actuator motor under cover plate (A)



Return To Table of Contents

HEAD SECTION ACTUATOR REPLACEMENT (Continued)



6. Through the opening on the side of the bed frame (G, once the dome cap is removed), use long nose pliers to remove the clevis pin (C), the Rue ring cotter (D) and the nylon washers (E).
7. Use a 3/4” socket and ratchet to remove the two bolts (F) and the washers (J) holding the actuator (H) to the bracket.

Note

Apply medium strength thread locker on the bolt (C) threads before reinstalling them.

8. Depending on the siderail configuration, the actuator may be easier to take out through the top or the bottom of the bed frame.
9. Reverse the preceding steps to install the new head actuator. Do not insert the clevis pin yet. Carefully read the following caution.

CAUTION

The head actuator course must be properly adjusted before hooking up the actuator tube to the head section lever. An improper adjustment can damage the head section mechanism.

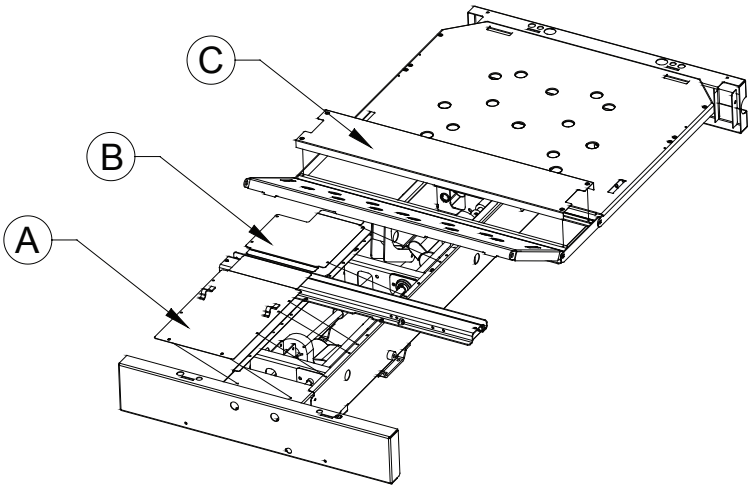
10. To adjust the head actuator, plug the bed.
11. Hold firmly the actuator tube and press the head section down switch on the foot end control panel until the actuator stops. This will be the limit of its lower course.
12. Align the head lever holes with those of the tube and insert the clevis pin temporarily.
13. To verify the head actuator adjustment, raise and then lower the head section using the foot end control panel. When the head section reaches the frames, the motor should stop working and the head section lean on the head lever wheels. A distance of 1/8” between the lever wheels and the head section is acceptable. A larger distance would mean that the adjustment is incorrect. To correct it, remove the clevis pin, screw the tube in manually for a short distance and insert again the clevis pin. Then repeat step 13 until the proper adjustment is found.
14. Complete the installation of the clevis pin with the two nylon washers and the Rue ring cotter.
15. Install cover plates A and B.

Return To Table of Contents

THIGH SECTION ACTUATOR REPLACEMENT

Required Tools:

- Phillips Screwdriver
- Long Nose Pliers
- 3/4” Socket and Ratchet
- OG2 Grease
- Thread Locker (Medium Strength)

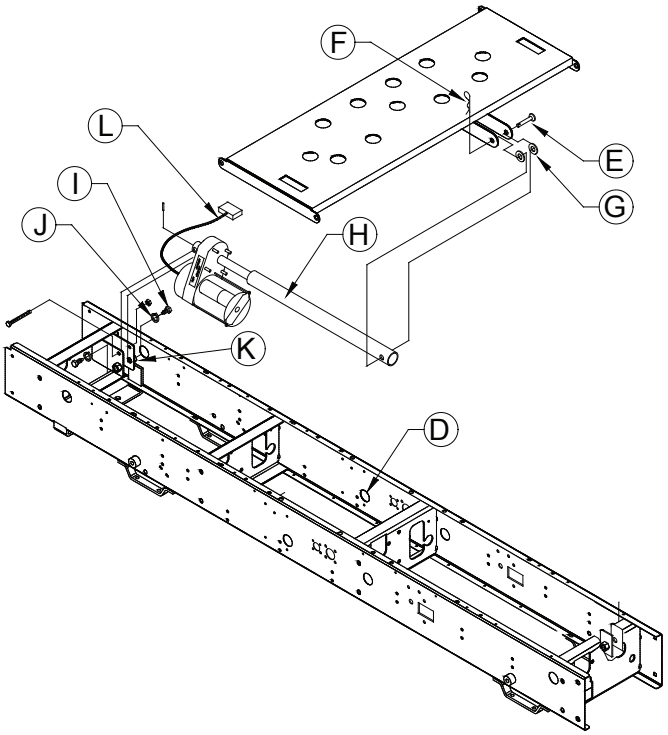


1. Fully raise the thigh section.
2. Remove the screws and the cover plates (A, B, C).

Note

The cover plate configuration may vary depending on the type of siderails equipping the bed.

1. Lower the thigh section to horizontal position.
2. Unplug the bed power cord.



Return To Table of Contents

THIGH SECTION ACTUATOR REPLACEMENT (Continued)

5. Disconnect the thigh actuator cable. The plug (L) is near the actuator motor.
6. Through the opening on the side of the bed frame (D, once the dome cap is removed), use long nose pliers to remove the clevis pin (E), Rue ring cotter (F) and nylon washers (G) hooking the thigh section to the actuator tube (H).

Note

Support the tube while removing the clevis pin to prevent it from falling on the PC Board. Apply grease on the clevis pin before installing it.

7. Remove the two bolts (I) and washers (J) holding the actuator (H) to the bracket (K).

Note

Apply medium strength thread locker on the bolt (I) threads before reinstalling them.

8. Reverse the procedure to install the new thigh actuator. Do not insert the clevis pin on yet. Carefully read the following caution.

CAUTION

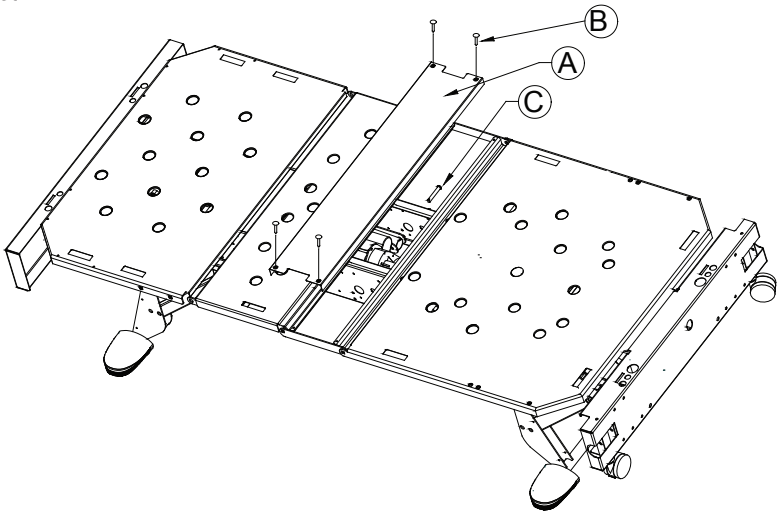
The thigh actuator course must be adjusted before hooking up the actuator tube to the thigh section lever. An improper adjustment can damage the thigh section structure.

9. To adjust the thigh section actuator, plug the bed.
10. Hold the actuator tube firmly and press the thigh section down switch on the foot end control panel until the actuator stops. This will be the actuator course lower limit.
11. Turn the tube until its holes and those of the lever are aligned. Insert the clevis pin temporarily.
12. To verify the thigh actuator adjustment, raise and then lower the thigh section using the foot end control panel. The thigh section must come to rest on the frame the moment the actuator stops working. Should the actuator continue its lowering movement when the thigh section has reach the frame, repeat the adjustment process until the proper adjustment is found.
13. Complete the installation of the clevis pin with the nylon washers and the Rue ring cotter.
14. Replace and fasten cover plates (A, B and C).

HI-LO MOTOR REPLACEMENT

Required Tools:

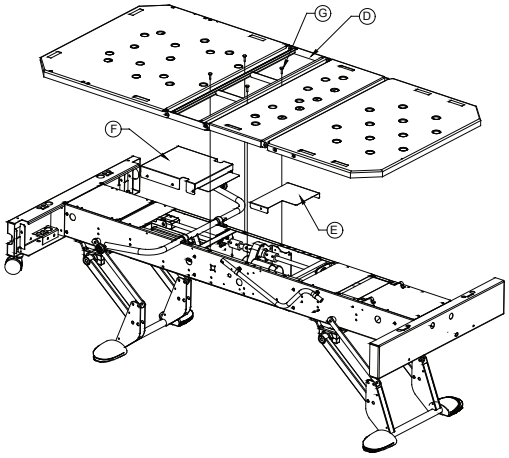
- Phillips Screwdriver
- Long Nose Pliers 7/16”
- Socket and Ratchet 3/8”
- Wrench 3/8”
- Socket and Ratchet
- Electric Tape
- OG2 Grease



1. Unplug the bed power cord.
2. Remove the four screws (B) holding the centre section cover plate (A).
3. Remove the clevis pin, nylon washers, rue ring cotter (C) hooking the actuator tube to the thigh section.

Note

Support the tube while removing the clevis pin to prevent it from falling on the PC Board. Apply grease on the clevis pin before installing it.

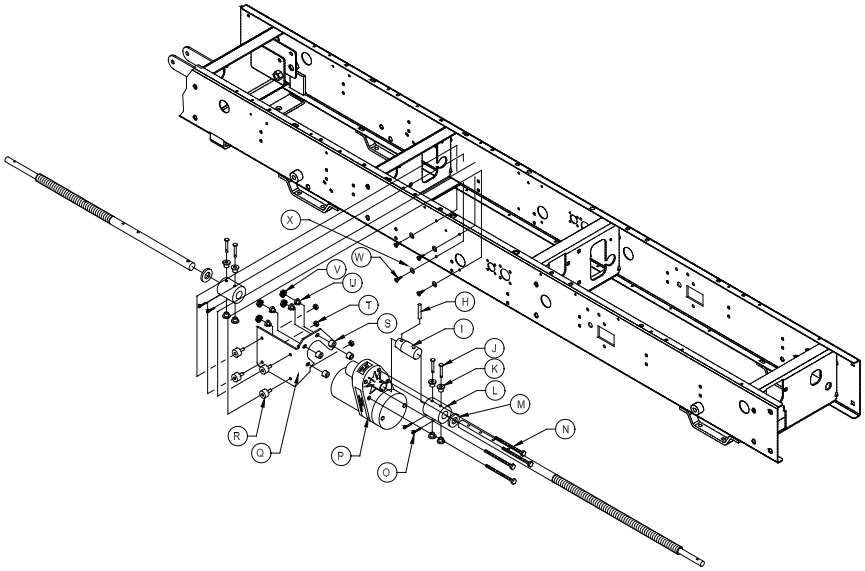


4. If the bed is equipped with half-length siderails, remove the head siderail assembly attached to the head section. To do so, refer to step 7 to 11 of the “Head half-length siderail” replacement procedure.

Return To Table of Contents

HI-LO MOTOR REPLACEMENT (Continued)

5. Remove the four bolts (D) holding the centre section (E) to the frame. Then lift and remove the mattress support as a whole with the help of another person.
6. Remove the screws holding the plates (E, F) and remove them.
7. Disconnect the Hi-Lo motor cable from the PC Board (connector J10).



8. Remove the four cotter pins (O, they must be replaced) locking the two clevis pins (J) of both supple couplings (L).
9. Remove the four clevis pins (J) from the supple couplings. Keep the nylon shoulder washers (K).
10. Slide the supple couplings towards the other end of each elevation screw enough to free the motor shafts. Remove the greased nylon washers (M) from the motor shaft end on both sides of the motor.

Note

These nylon washers (M) prevent the screw ends from coming into contact with the motor shafts. It is very important that they are placed exactly at the same position, i.e. at both ends of the motor shafts with grease applied on each side of the washers.

11. Remove the four screws (W) holding the motor bracket (Q) to the frame. Keep the spring washers (X). Lay the motor on a workbench.
12. Using a 3/8” wrench, a 3/8” socket and a ratchet, remove the four locknuts (V), nylon shoulder washers (U), nylon shoulder spacers (S) and the bolts holding the motor to the bracket.
13. Mount the replacement motor to the bracket. Use the parts kept. Replace them if defective.
14. Reverse the above steps to install the replacement motor. Do not put the clevis pins on yet, the mechanism must first be adjusted.

⚠ CAUTION

The Hi-Lo mechanism must be properly adjusted following the replacement of the Hi-Lo motor. An improper adjustment may damage the mechanism.

15. Plug in the bed power cord.
16. The motor being free from both screws, press the bed down switch on the foot end control panel until the motor stops by itself. This will be the motor course lower limit. Unplug the bed power cord.

Return To Table of Contents

HI-LO MOTOR REPLACEMENT (Continued)

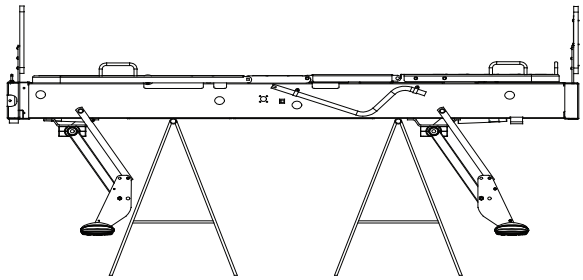
17. Insert the four clevis pins (J) and the nylon shoulder washers (K) through the supple coupling, the motor shaft and the elevation screw end on both sides of the motor. For the moment, only the clevis pin joining the supple coupling to the motor shaft on both sides of the motor will be definitively locked by inserting a replacement cotter pin (O) through both clevis pins. As for the two other clevis pins joining together the supple coupling and the elevation screw end on both sides of the motor, tape the supple coupling using electric tape to prevent the clevis pins from falling off during the next operation.
18. Plug the bed power cord and raise the bed until the distance between the ground and the frame top is 26 3/4” (68 cm) at both ends. Do not worry if one end is lower than the other, you will be able to adjust that later in the procedure. The important thing is that the distance is not greater than 26 3/4” (68 cm) at either end of the frame.
19. Unplug the bed power cord.
20. Remove the electric tape from the supple couplings and remove the two clevis pins and the shoulder washers.
21. The motor being free again from the screws, plug in the bed power cord and press the bed up switch until the motor stops by itself. Then unplug the bed power cord.
22. Now is the time to equalize the height of the frame on both ends. Simply turn manually the elevation screw on the short side to raise the frame top to 26 3/4” (68 cm).
23. The two remaining clevis pins joining together the supple coupling and the elevation screw ends on both sides of the motor can now be definitively installed with their shoulder washers and replacement cotter pins.
24. Plug in the bed power cord.
25. Check the bed in low position. Press the bed down switch on the foot board control panel until the lowering movement automatically stops. The casters should not touch the floor and be at least 1/4” from the floor. If they are at less than 1/4” from the floor, adjust the position of the micro switch that controls this automatic stop. Loosen the two screws holding the micro switch bracket to the frame and follow steps 12 and 13 of the “Micro Switch Replacement” procedure to adjust the micro switch position.
26. Check the bed when in its lowest position. Press the “lower bed on casters” button. When the movement stops, the distance between the legs and the floor should be 1/2”.
27. Press the elevation switch (bed up) to place the bed back on its legs.
28. Unplug the bed and finish installing all cover plates and the mattress support.

Return To Table of Contents

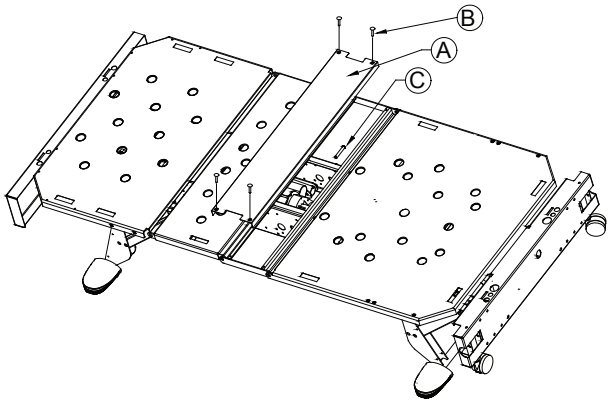
HEAD HI-LO SCREW REPLACEMENT

Required Tools:

- Trestles (2)
- Phillips Screwdriver
- Long Nose Pliers
- 7/16” and 1/2” Socket and Ratchet
- 9/16” ans 1/2 “Wrench
- 3/16” and 1/8 “ Allen Key
- 7/32” Punch Hammer
- OG2 Grease
- Electric Tape



1. Fully raise the bed.
2. Unplug the bed power cord.
3. Manually lift the bed and set its frame on trestles to free the legs from the ground.



4. Remove the four screws (B) holding the centre section cover plate (A) and remove the cover plate.
5. Remove the clevis pin, nylon washers and Rue ring cotter (C) hooking the actuator tube to the thigh section.

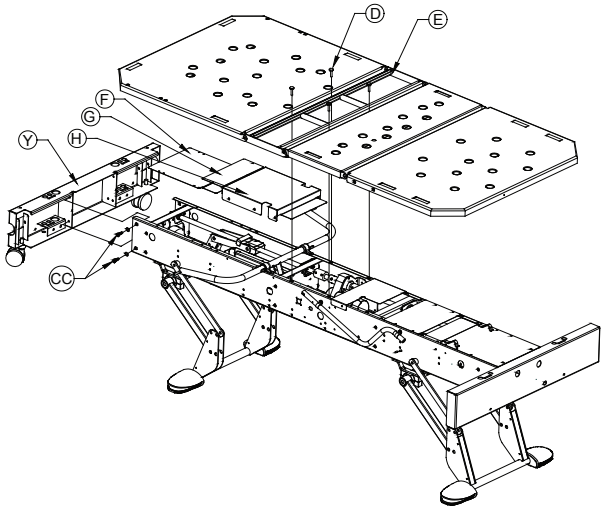
Note

Support the tube while removing the clevis pin to prevent it from falling on the PC Board. Apply grease on the clevis pin before installing it.

6. If the bed is equipped with half-length siderails, remove the head siderail assembly attached to the head section. To do so, refer to steps 7 to 11 of the “Head half-length siderail” replacement procedure.

Return To Table of Contents

HEAD HI-LO SCREW REPLACEMENT (Continued)

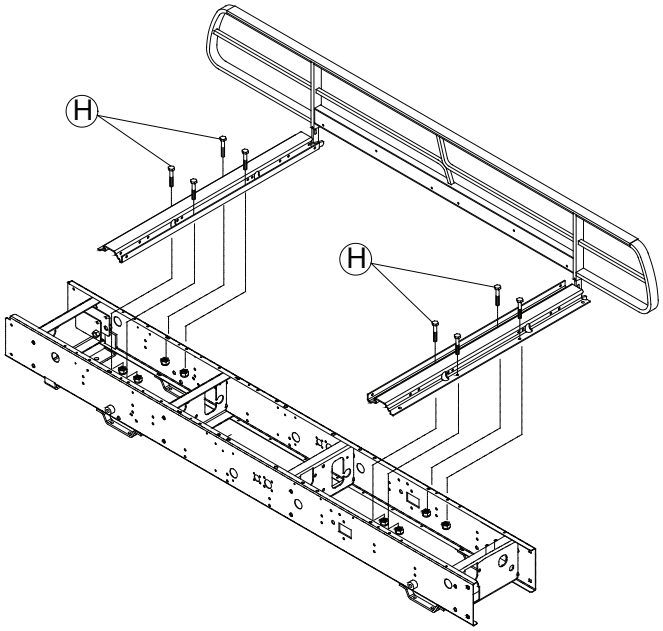


7. Remove the four bolts (D) holding the centre section (E) to the frame. Then lift and remove the mattress support as a whole with the help of another person.
8. Remove the screws holding plates F, G and H.

Note:

The configuration of the plates may vary depending on the siderails equipping the bed.

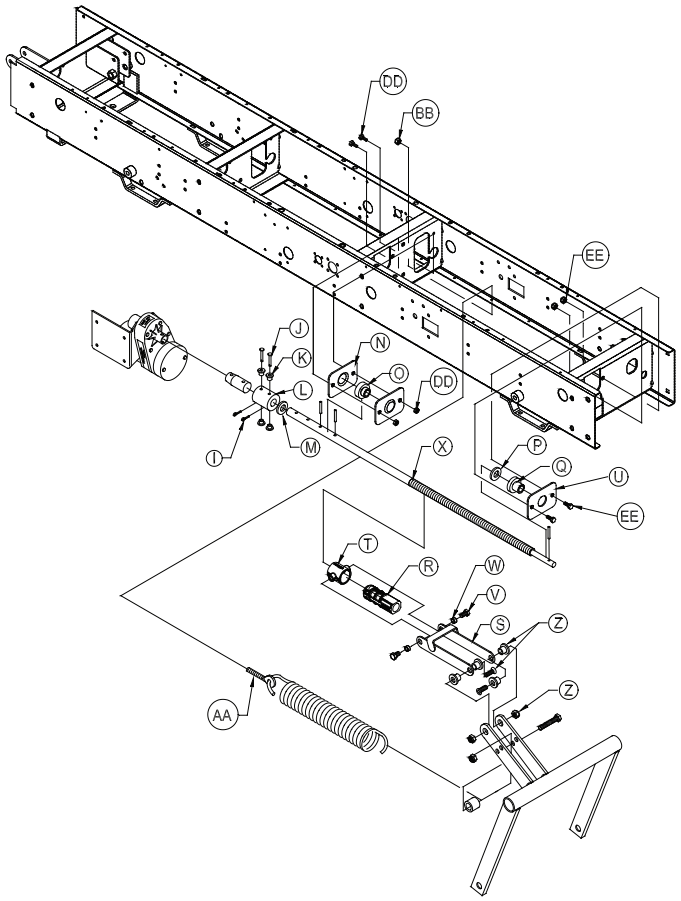
9. Remove the four bolts/lock washers/nuts (CC) holding the head end casing (Y) to the frame and remove the casing.



10. If the bed is equipped with three-quarter length or full-length siderails, they will have to be removed completely with their supports. The same applies for the foot half-length siderails if they are present. Using a 7/16” wrench, a 7/16” socket and a ratchet, remove the bolts/locknuts (H) holding the siderail supports to the frame and remove the complete siderail assembly with the help of another person.

Return To Table of Contents

HEAD HI-LO SCREW REPLACEMENT (Continued)



11. Remove the nut (BB) of the spring adjustment screw (AA) and lay the spring down.
12. Plug in the bed power cord and press the bed down control until the raising legs clear the way to access the two hexagonals socket screws (Z). Unplug the bed power cord.
13. Remove the two hexagonals socket screws, shoulder spacers, locknuts (Z).
14. Remove the clevis pin (J), shoulder washers (K) and cotter pin (I, replace it) linking the motor shaft to the head Hi-Lo screw through the supple coupling (L).
15. Remove the bolts, locknuts (DD) holding the bearing (O) and the plain bearing plates (N) to the frame.
16. Remove the bolts, locknuts (EE) holding the nylon bushing (Q), the spacing washer (P) and the plain bearing (U).

Note

Apply grease on the nylon bushing before installing it.

17. Remove the head Hi-Lo screw (X). If the nylon washer (M) comes with the screw, remove it and replace it against the motor shaft through the supple coupling with grease applied on its sides.
18. Remove from the damaged screw all reusable parts: The spring pins using a 7/32” punch and a hammer; the bearing (O) using a 1/8” Allen key to remove the two set screws holding it in place, the support plates (N, U) and the molded nut (R), its bracket (T) and the harness (S) using a 9/16” wrench to remove the two bolts (V), spacers (W).

Note

Apply medium strength thread locker on the set screw threads before reinstalling them on the bearing.

Return To Table of Contents

HEAD HI-LO SCREW REPLACEMENT (Continued)

19. Transfer to the replacement screw all reusable parts. Replace damaged ones. Apply grease on the screw threads.
20. Reverse the above steps to install the replacement head Hi-Lo screw in the frame. Install the clevis pin (J) and the shoulder washers (K) without the cotter pin (I) for the moment. An adjustment must be done before installing the parts definitively.

⚠ CAUTION

The Hi-Lo mechanism must now be properly adjusted. An improper adjustment may damage the mechanism.

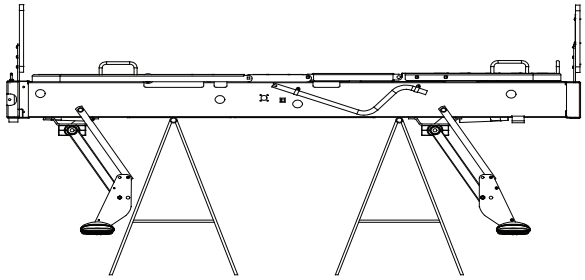
21. Replace the bed on its legs.
22. Put electric tape over the clevis pin (J) to prevent it from falling during the following operations.
23. Plug in the bed power cord and fully raise the bed. Unplug the bed power cord.
24. Measure the distance between the floor and the top of the frame at the head end of the bed (the foot end distance should not have changed through this procedure). It should be 26 3/4” (68 cm). If the head side is shorter, remove the clevis pin and manually turn the head Hi-Lo screw to level the frame.
25. Once this is done, definitively install the clevis pin (J), the shoulder washers (K) and the replacement cotter pin (I) through the supple coupling (L) and the head Hi-Lo screw (X).
26. Plug in again the bed power cord.
27. Check the bed in low position. Press the bed down switch on the foot board control panel until the lowering movement automatically stops. The casters should not touch the floor and be at least 1/4” from the floor. If they are at less than 1/4” from the floor, adjust the position of the micro switch that controls this automatic stop. Loosen the two screws holding the micro switch bracket to the frame and see steps 12 and 13 of the “Micro switch replacement” to adjust the micro switch position.
28. Check the bed when in its lowest position. Press the “Lower bed on casters” button. When the movement stops, the distance between the legs and the floor should be 1/2”.
29. Press the elevation switch (bed up) to place the bed back on its legs.
30. Unplug the bed and finnish installing all cover plates, the head end casing, the siderails and the mattress support.

Return To Table of Contents

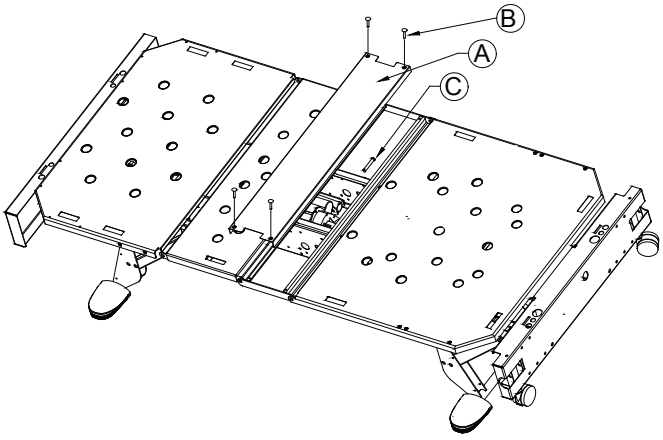
FOOT HI-LO SCREW REPLACEMENT

Required Tools:

- Trestles (2)
- Phillips Screwdriver
- Long Nose Pliers 7/16”
- Socket and Ratchet 9/16”
- Wrench 1/2”
- 3/16” and 1/8” Allen Key
- 1/2” Socket and Ratchet
- 7/32” Punch Hammer
- Electric tape
- OG2 Grease



1. Fully raise the bed.
2. Unplug the bed power cord.
3. Manually lift the bed and set its frame on trestles to free the legs from the ground.



4. Remove the four screws (B) holding the centre section cover plate (A) and remove it.
5. Remove the clevis pin, nylon washers and Rue ring cotter (C) hooking the actuator tube to the thigh section.

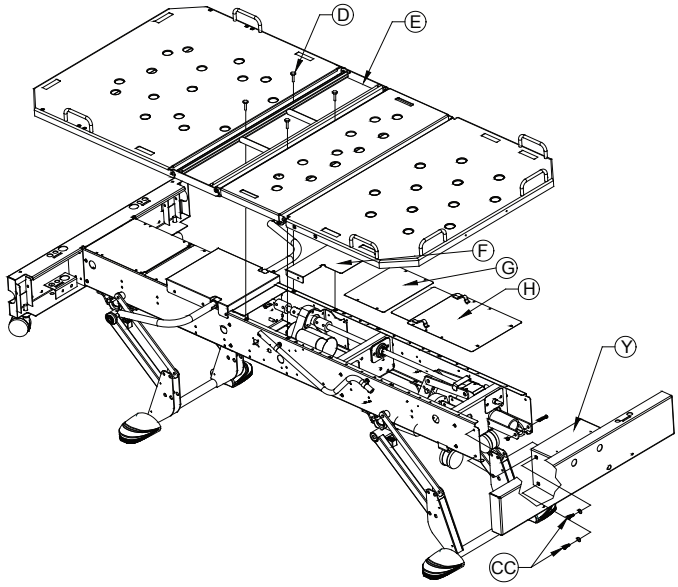
Note

Support the tube while removing the clevis pin to prevent it from falling on the PC Board. Apply grease on the clevis pin before installing it.

6. If the bed is equipped with half-length siderails, remove the head siderail assembly attached to the head section. To do so, refer to steps 7 to 11 of the “Head half-length siderail” replacement procedure.

Return To Table of Contents

FOOT HI-LO SCREW REPLACEMENT (Continued)

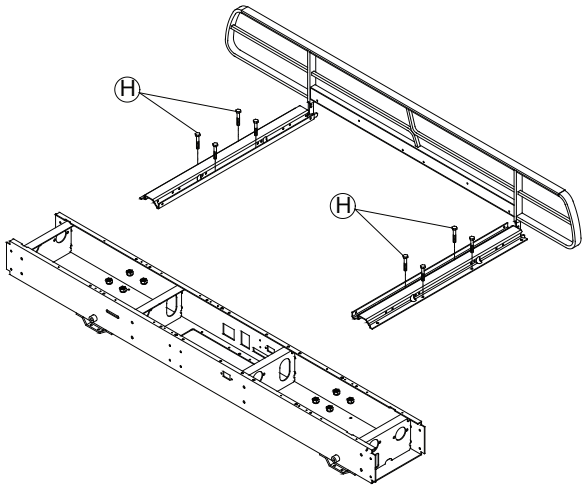


7. Remove the four bolts (D) holding the centre section (E) to the frame. Lift and remove the mattress support as a whole with the help of another person.
8. Remove the screws holding plates F, G and H.

Note

The configuration of the plates may vary depending on the siderails equipping the bed.

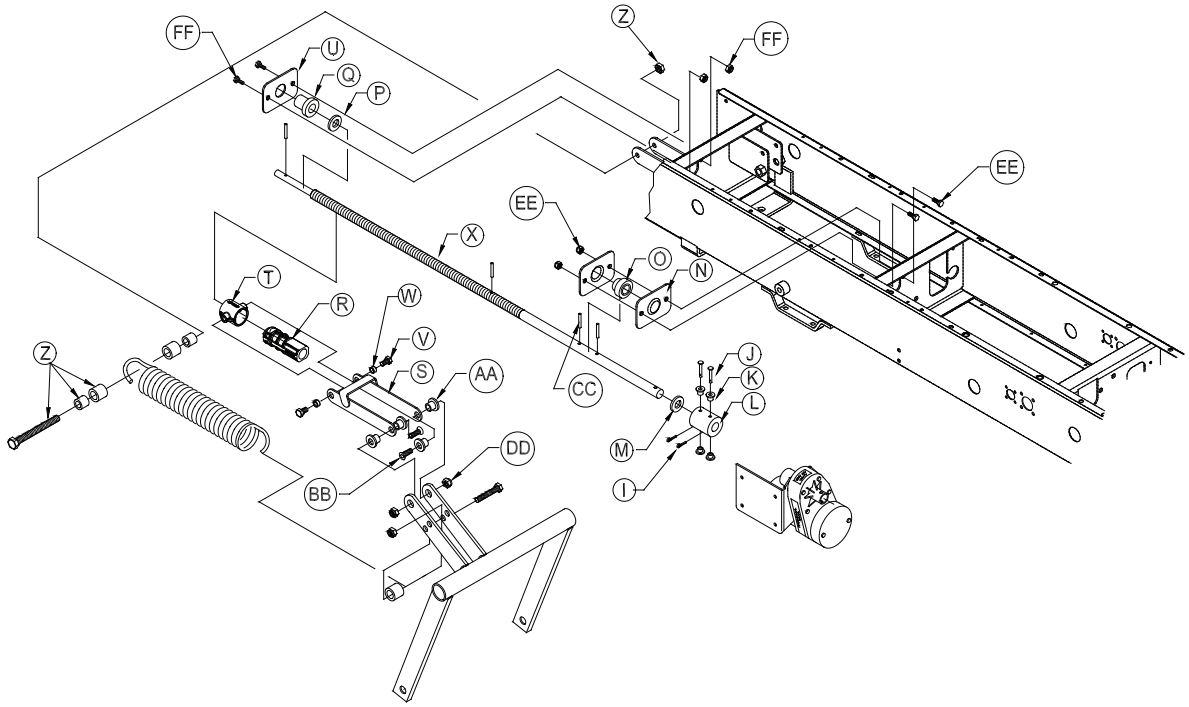
7. Remove the four bolts, lock washers, nuts (CC) holding the foot end casing (Y) to the frame and remove the casing.



10. If the bed is equipped with three-quarter length or full-length siderails, they will have to be removed completely with their supports. The same applies for the foot half-length siderails if they are present. Using a 7/16” wrench, a 7/16” socket and a ratchet, remove the bolts, locknuts (H) holding the siderail supports to the frame and remove the complete siderail assembly with the help of another person.

Return To Table of Contents

FOOT HI-LO SCREW REPLACEMENT (Continued)



11. Remove the bolt, nylon spacers, locknut (Z) to release the spring. Lay the spring down.
12. Plug in the bed power cord and press the bed down control until the raising legs clear the way to access the two hexagonals socket screws (BB). Unplug the bed power cord.
13. Remove the two hexagonals socket screws (BB), shoulder spacers (AA), locknuts (DD).
14. Remove the clevis pin (J), shoulder washers (K) and cotter pin (I, replace it) linking the motor shaft to the foot Hi-Lo screw through the supple coupling (L).
15. Remove the bolts/locknuts (EE) holding the bearing (O) and the plain bearing plates (N) to the frame.
16. Remove the bolts/locknuts (FF) holding the nylon bushing (Q), the spacing washer (P) and the plain bearing (U).

Note

Apply grease on the nylon bushing before replacing it.

17. Remove the spring pin (CC). Remove the two set screws holding in place the bearing (O). Then slide the bearing toward the threaded end of the screw (X). The foot Hi-Lo screw cannot be removed if this operation is not done.

Note

Apply medium strength thread locker on the set screw threads before replacing them on the bearing.

18. Remove the foot Hi-Lo screw (X). If the nylon washer (M) comes with the screw, remove it and replace it against the motor shaft through the supple coupling with grease applied on its sides.
19. Remove from the damaged screw all reusable parts: The spring pins, using a 7/32” punch and a hammer; the bearing (O), the support plates (N, U) and the molded nut (R), its bracket (T) and the harness (S) using a 9/16” wrench to remove the two bolts (V), spacers (W).
20. Transfer to the replacement screw all the reusable parts. Replace damaged parts. Apply grease on the screw threads.
21. Reverse the above steps to install the replacement foot Hi-Lo screw in the frame. Install the clevis pin (J) and the shoulder washers (K) without the cotter pin (I) for the moment. An adjustment must be done before installing these parts definitively.

Return To Table of Contents

FOOT HI-LO SCREW REPLACEMENT (Continued)

⚠ CAUTION

The Hi-Lo mechanism must now be properly adjusted. An improper adjustment may damage the mechanism.

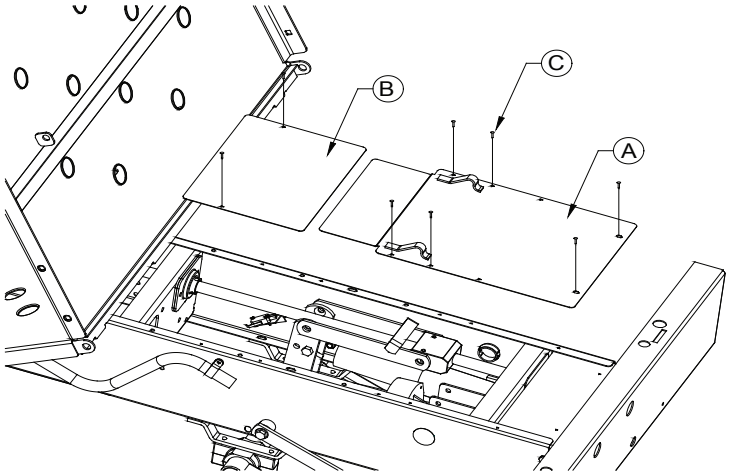
22. Replace the bed on its legs.
23. Put electric tape over the clevis pin (J) to prevent it from falling during the following operations.
24. Plug in the bed power cord and fully raise the bed. Unplug the bed power cord.
25. Measure the distance between the floor and the top of the frame at the foot end of the bed (the head end distance should not have changed through this procedure). It should be 26 3/4” (68 cm). If the foot side is shorter, remove the clevis pin (J) and manually turn the foot Hi-Lo screw to level the frame.
26. Install the clevis pin (J), the shoulder washers (K) and the replacement cotter pin (I) through the supple coupling (L) and the foot Hi-Lo screw (X).
27. Plug in again the bed power cord.
28. Check the bed in low position. Press the bed down switch on the foot board control panel until the lowering movement automatically stops. The casters should not touch the floor and be at least 1/4” from the floor. If they are at less than 1/4” from the floor, adjust the position of the micro switch that controls this automatic stop. Loosen the two screws holding the micro switch bracket to the frame and follow steps 12 and 13 of the “Micro switch replacement” procedure to adjust the micro switch position.
29. Check the bed when in its lowest position. Press the “lower bed on casters” button. When the movement stops, the distance between the legs and the floor should be 1/2”.
30. Press the elevation switch (bed up) to place the bed back on its legs.
31. Unplug the bed and finish installing all cover plates, the foot end casing, the siderails and the mattress support.

Return To Table of Contents

MICRO SWITCH REPLACEMENT

Required Tools:

- Small and Medium Phillips Screwdrivers

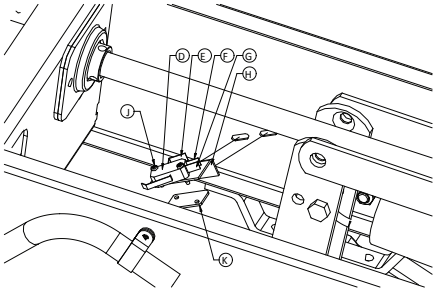


1. Fully raise the bed.
2. Fully raise the thigh section.
3. Lift and fold the foot section towards the head end of the bed and attach it to the bed to prevent it from falling back.
4. Remove the screws (C) and the cover plates (A, B) located under the thigh and foot sections.

Note

The cover plate configuration may vary depending on the type of siderails equipping the bed.

E. Common (Black wire)
F. Normally open (Not used)
G. Normally closed (Red Wire)



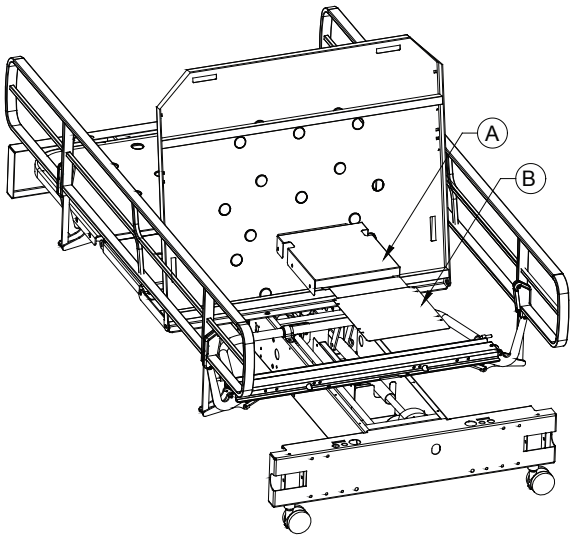
5. Remove the wires connected to the micro switch. Note their connecting positions.
6. Remove the screws holding the micro switch support bracket (H) to the bed frame.
7. Remove the two screws (J) holding the micro switch (D) to the support bracket (H) and remove the defective micro switch. Keep the nut (K).
8. Fasten the replacement micro switch to the support bracket.
9. Connect the micro switch wires (refer to indications shown at the right of the figure preceding step 5 of this procedure).
10. Plug in again the bed power cord and lower the bed until the mattress support top is 12” from the floor. Make sure the casters are not in contact with the ground. They should be at least 1/4” off the ground. If the distance is less than 1/4”, raise the bed slightly using the electric controls to lengthen this distance to 1/4”.
11. Fasten the micro switch bracket (H) to the bed frame.
12. Take care when positioning the support (H) in the oblong holes in the frame. The exact location is reached when the micro switch contacts the Hi-Lo lever and a click is heard. The support can now be fastened tightly to the frame. Make sure to maintain this position while fastening the screws.
13. Check the micro switch for proper operation. Raise the bed completely, then lower it; the bed lowering movement should stop automatically to prevent the casters from reaching the ground (casters should be 1/4” off the ground).
14. Install and fasten cover plates (A, B).

Return To Table of Contents

MOTOR CONTROL BOARD REPLACEMENT

Tools Required:

- Phillips Screwdriver
- Long Nose Pliers
- Bungee Cord
- 12” High Block



1. Fully raise the bed. Manually lift the head section and maintain it in this position using a bungee cord.
2. Unplug the bed power cord.
3. Remove the screws holding the cover plates (A, B) to the frame and remove the cover plates.

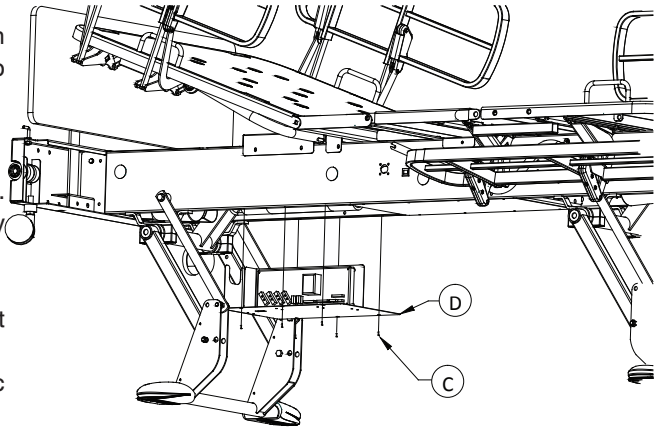
Note

The configuration of the covers may vary depending on the siderails equipping the bed.

4. Properly ground yourself (see Figure 1.4, page 6).
5. Remove the screws (C) around the cover plate (D)

Note

Do not remove the two ones that are side by side on each side of the plate: they hold the control board support to the plate.



6. Support the control board using a 12” high block.
7. Remove all connectors from the control board. Carefully note their connecting position so that they are properly replaced on the replacement board.
8. Remove the defective board from the stand off pins.
9. Reverse the above steps to install the replacement board.
10. Plug in the bed power cord and check all its electric functions.

Return To Table of Contents

FOOT END CONTROL PANEL REPLACEMENT

Tools Required:

- Phillips Screwdriver

1. Unplug the bed power cord.
2. Disconnect the foot board control panel cable (A).
3. Remove the six screws (B) holding the wire cover plate to the foot board and remove the plate.
4. Remove the two screws (C) holding the two wire clamps to the foot board and remove the clamps.
5. Remove the two screws (D) holding the control panel to the foot board and remove the defective control panel.

CAUTION

Do not exceed the 15 lbf in/2 N m maximum torque when fastening the replacement control panel to the foot board.

6. Reverse the above steps to install the replacement foot board control panel.
7. Plug in the bed power cord and check all the control panel functions.

POWER CORD REPLACEMENT

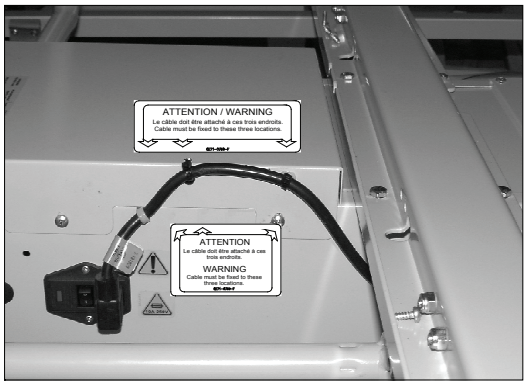
Required Tools:

- Cutting Pliers
- Cordless Drill w/Bit
- Riveting Tool

1. Fully raise the bed and unplug the bed power cord from the wall outlet.
2. Unplug the bed power from the power connector.
3. Cut the nylon ties holding the power cord to the frame.

Note

Make sure the cable is attached to the frame properly. The three first tie positions that follow the power connector must absolutely be respected. Labels affixed to the frame indicate these cable tie positions. See figure.



4. Remove the pop rivet attaching the black collar holding the cable to the base of the foot Hi-Lo lever.

Note

In the case of a bed equipped with the Bed Exit system, the pop rivet also holds the Bed Exit connection cable.

5. Reverse the above steps to install the replacement power cord.
6. Check the bed for proper operation before returning the bed to service.

Return To Table of Contents

POWER CONNECTOR FUSE REPLACEMENT

Required Tools:

- Small Blunt-Ended Screwdriver

1. Remove the power cable (A) from the connector.
2. Remove the fuse box (B) from its location.
3. Replace the defective fuse (C).

Note

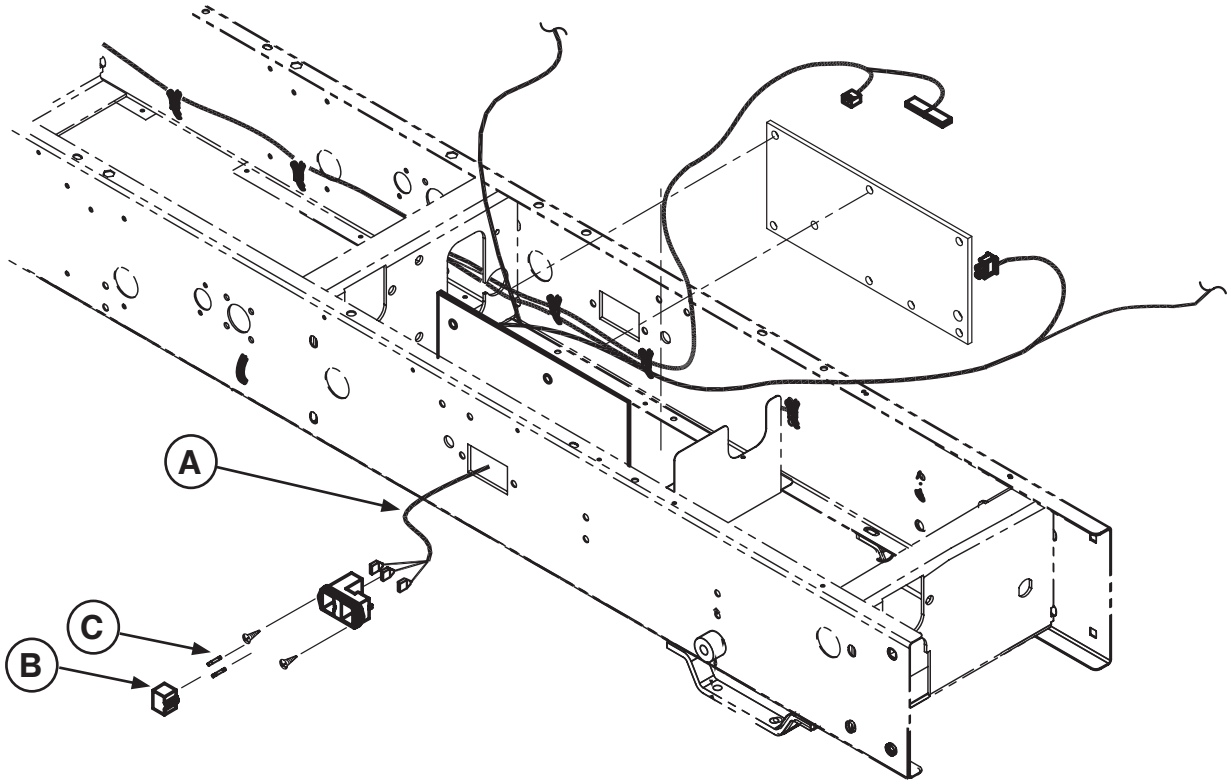
The fuses used are of the fast acting, 250V, 10A type.

5. Replace the fuse box.

Note

There is only one way to replace the fuse box. The current will not go to the bed if the box is placed up side down.

6. Check the power connector for proper operation before returning the bed to service.



Return To Table of Contents

BED LEG REPLACEMENT

Required tools:

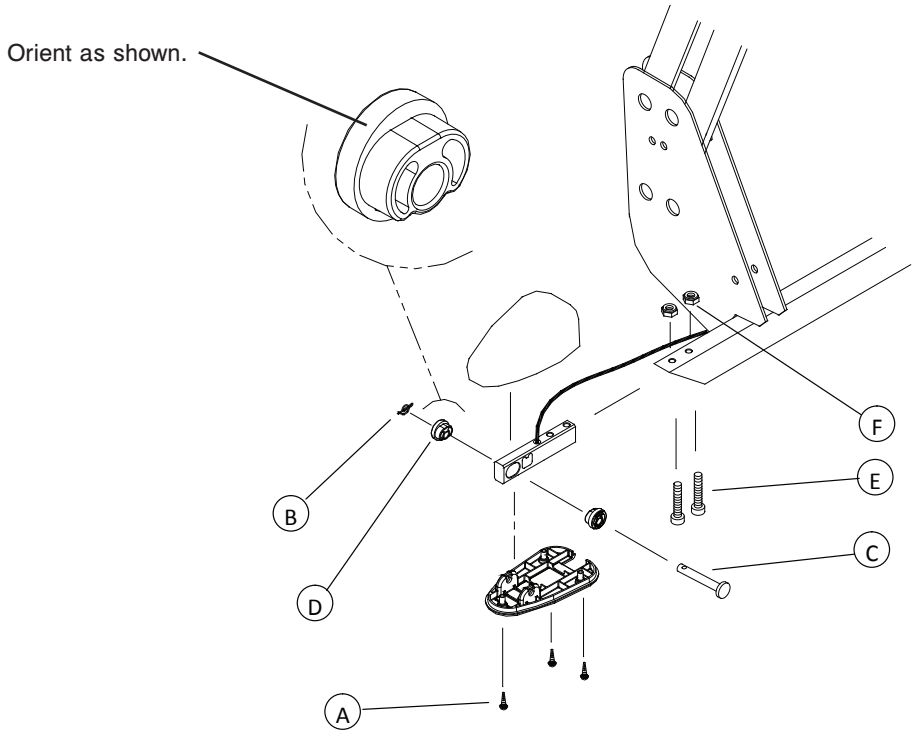
- Four Adjustable Jack Stands
- Medium Phillips Screwdriver
- Long Nose Pliers

1. Fully raise the bed.
2. Adjust the four adjustable jack stands at the same height than head and foot bracket lower parts and place them under the four corners of the brackets. Place a protective pad between the boards and the jack stands.
3. Lower the bed until there is a minimum distance of 6” between the legs and the floor. Unplug the bed power cord.
4. Remove the three screws (A) holding the leg cover.
5. Remove the Rue ring cotter (B) and the clevis pin (C) holding the leg to the load cell. Keep the nylon sleeves (D).

Note

When removing the two sleeves (D), note that the thicker part of the sleeve is inserted in the upper part of the load cell opening

6. Reverse the above steps to install the new leg.



Return To Table of Contents

LOAD CELL REPLACEMENT

Required Tools:

- Phillips Screwdriver
- Four adjustable jack stands
- Torque Wrench 1/2”
- Wrench 1/4”
- Allen Key
- Long Nose Pliers
- Cutting Pliers

Note

Unless otherwise indicated, all references in this procedure refer to the figure in the bed legs replacement section.

1. Fully raise the bed and siderails.
2. For a load cell located at the head end: Manually lift and fold the head section toward the foot end of the bed. Remove the screws of the cover plates found under the head section.

Note

The cover plate configuration may vary according to the type of siderails equipping the bed.

3. For a load cell located at the foot end: Fully raise the thigh section using the electric command. Manually lift and fold the foot section toward the head end of the bed. Remove the screws of the cover plates found under the foot section.

Note

The cover plate configuration may vary according to the type of siderails equipping the bed.

4. Remove the eight screws holding the Bed Exit PC Board support plate to the frame.
5. Lower the plate and support it using a 12” high block placed under the plate.

Note

When reinstalling the PC Board support plate on the frame, ensure all cables connected to the PC Board are properly disposed and they do not impede the functioning of the other components located close to the PC Board and the cables.

6. Adjust the jack stands at the same height than head and foot bracket lower parts and place them under the four corners of the brackets. Place a protective pad between the boards and the jack stands.
7. Lower the bed until there is a minimum distance of 6” between the legs and the floor. Unplug the bed power cord.
8. Remove the three screws (A) holding the leg cover of the defective load cell.
9. Remove the Rue ring cotter (B) and the clevis pin (C) holding the leg to the load cell. Keep the nylon sleeves (D).

Note

When removing the two sleeves (D), note that the thicker part of the sleeve is inserted in the upper part of the load cell opening (see figure MG-44).

10. Cut the cable ties holding the defective load cell cable along its path to the PC Board.
11. Remove from the PC Board the defective load cell connector and completely remove the cable.
12. Remove the bolts (E) and locknuts (F) holding the load cell to the lever.

Return To Table of Contents

Note

A 130 lbf-in (14.7 N-m) torque must be applied when tightening the two bolts holding the load cell.

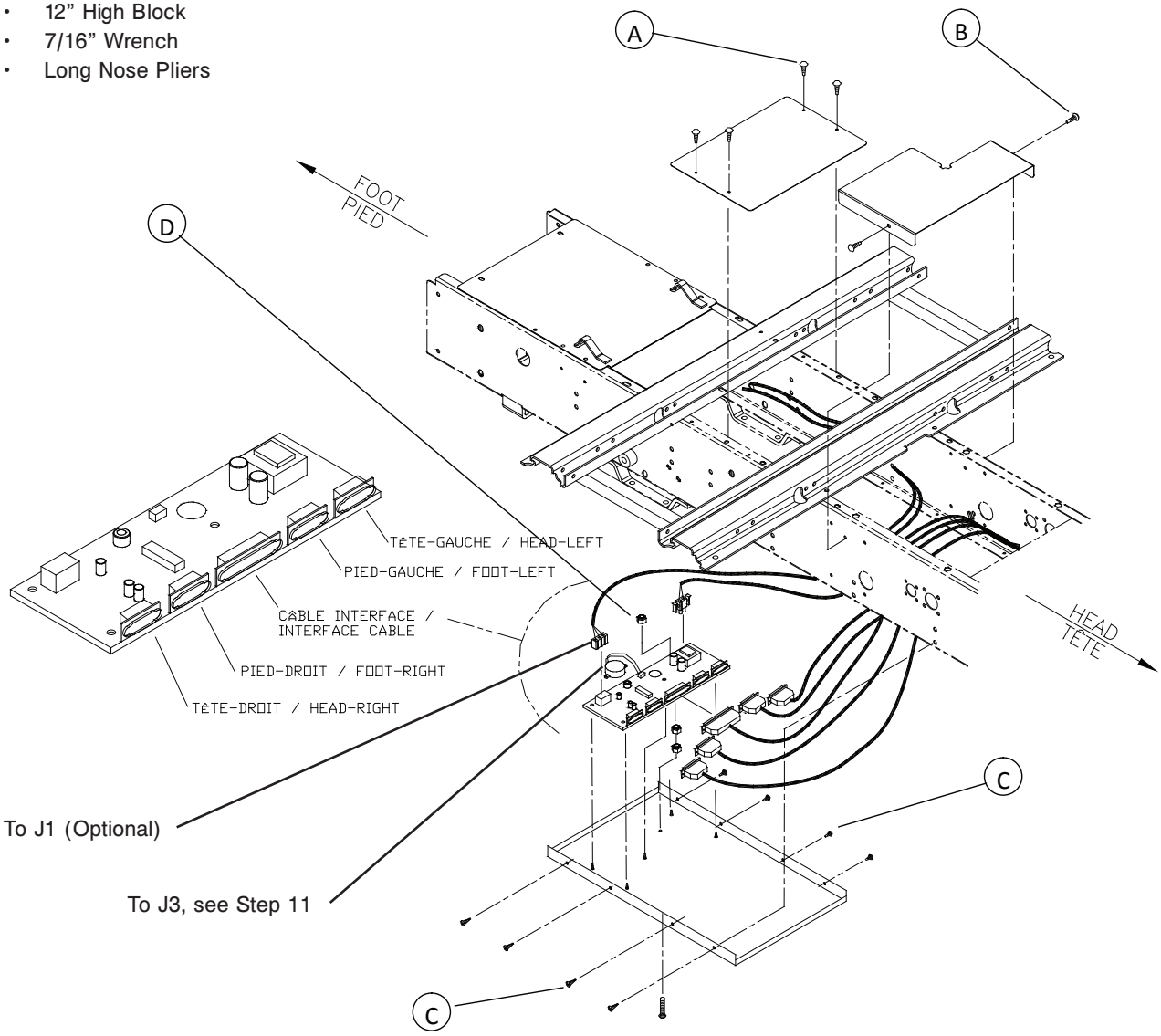
13. Reverse the above steps to install the replacement load cell.
14. Proceed to the zeroing of the Bed Exit system. This operation is essential to the proper functioning of the Bed Exit system. Plug in the bed power cord. Press on Arm/Disarm key until the Bed Exit LED starts blinking; then release the key (do not touch to the bed until the LED is not completely off). The zeroing is completed when the LED stops blinking and completely goes off.
15. Check the Bed Exit system before returning the bed to service.

Return To Table of Contents

BED EXIT CONTROL BOARD REPLACEMENT

Required Tools:

- Phillips Screwdriver
- 12” High Block
- 7/16” Wrench
- Long Nose Pliers



1. Fully raise the bed.
2. Remove the four screws of the center section cover plate (B, fig.) and remove the plate.
3. Raise the siderails, except the head half-length siderails.
4. Fully raise the thigh section through the electric command and manually lift and fold the foot section toward the head end of the bed.
5. Unplug the bed power cord.
6. Remove the four screws (A) of the cover plate located under the foot section and remove the plate.
7. Remove the two screws (B) of the cover plate located under the thigh section and remove the plate.
8. Properly ground yourself (see static discharge protection).
9. Remove the eight screws (C) holding the PC Board support to the frame.
10. Lower the support and support it using a 12” high block placed under it.
11. Remove all cables connected to the control board. Carefully note their connecting position to properly replace them on the new control board.

Return To Table of Contents

BED EXIT CONTROL BOARD REPLACEMENT (Continued)

Note

When connecting the buzzer cable on J3, ensure it is the connector female contacts, to which are attached the red and black wires, that are inserted on the two male contacts of J3.

12. Remove the grounding nut (D).
13. Remove the control board from the stand-off pins.
14. Reverse the above steps to install the replacement control board.

Note

When reinstalling the control board support plate on the frame, ensure all cables connected to the control board are properly disposed and they do not impede the functioning of the other components located close to the control board and the cables.

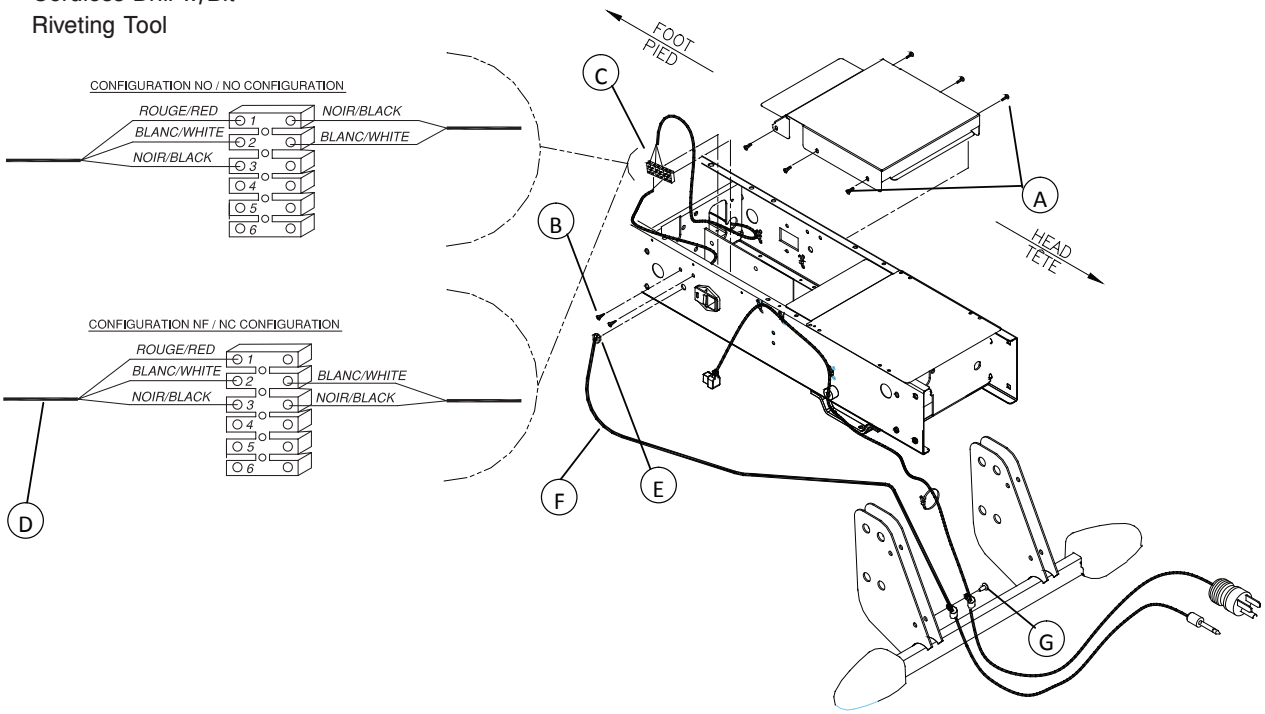
15. Proceed to the zeroing of the Bed Exit system. This operation is essential to the proper functioning of the Bed Exit system.
    - Plug in the bed power cord.
    - Press on Arm/Disarm key until the Bed Exit LED starts blinking; then release the key (do not touch to the bed until the LED is not completely off). The zeroing is completed when the LED stops blinking and completely goes off.
16. Check the Bed Exit system before returning the bed to service. Refer to the Operations Manual dealing with the Bed Exit system verification.

Return To Table of Contents

BED EXIT CONNECTION CABLE (OPTIONAL) REPLACEMENT

Required Tools:

- Bungee Cord
- Phillips Screwdriver
- Small Flat Head Screwdriver
- Pliers
- Cutting Pliers
- Cordless Drill w/Bit
- Riveting Tool



1. Fully raise the bed and the siderails.
2. Unplug the bed power cord.
3. Manually lift and fold the head section toward the foot end of the bed. Attach it with a bungee cord to secure its position.
4. Remove the screws (A) of the cover plate overlapping the head section lever. Remove the plate.
5. Remove the two screws (B) holding the multiple connector (C) to the frame.
6. Remove the two screws holding the cable wires (D) to the multiple connector. Carefully note their connecting position so that they are properly replaced. You can also refer to the above figure for the illustration of the position of the wires on the multiple connector.
7. Tighten the strain relief bushing (E) and remove it from its location. The cable (F) will follow.
8. Cut the nylon ties holding the cable to the bed.
9. Remove the pop rivet (G) attaching the black collar holding the cable to the base of the Hi-Lo lever.

Note

The pop rivet also holds the bed power cord.

10. Reverse the above steps to install the replacement cable.
11. Connect the cable to the nurse call system and check that the Bed Exit system does send a signal to the nurse's desk through the new cable. To set off the alarm, refer to section "Setting up the bed" of the Operations Manual, dealing with the Bed Exit system verification.

Return To Table of Contents

LOAD CELL VERIFICATION

The following verification will help determining if a defective load cell is the cause of an improper functioning of the Bed Exit system. Up till now, we know that the wiring of the components is in good condition and properly connected the Bed Exit control board, that the LED of the control board still blinks (if not, the control board has been replaced and the problem persists) and that all cables are properly connected to the Bed Exit control board. We will thus proceed to a systematic verification of the four load cells.

Required Tools:

- Phillips Screwdriver
- 50 lb Weight

Note

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

1. Perform a visual verification of the four load cells cables. Are they in good condition? Is the sheath cut somewhere along the cable path? None is stuck in a bed mechanism, especially in the bed elevation system? Before proceeding with the verification, read step 3 of the “Load Cell Replacement” procedure. You will find indications on how to position the mattress support sections and which cover plates to remove in order to clearly see the head and foot cell cables.
2. Verification of the side zones at the four corners of the bed:
   - Remove the mattress.
   - Fully raise the bed and lower the siderails.
   - Zero the Bed Exit system (see step 15 of the “Bed Exit Control Board Replacement” procedure)
   - Place a 50 lb weight on the head right corner *.
   - Press on Arm/Disarm key to activate the Bed Exit system: If the Bed Exit LED does not turn on, the head right load cell is defective and must be replaced (see Load Cell Replacement).
   - Repeat this procedure for each corner.
3. If none of the load cells is defective, the PC Board will have to be replaced (see the “Bed Exit Control Board Replacement” procedure).

* The centre of gravity of the weight must be placed directly above the corner otherwise the test will not be conclusive.

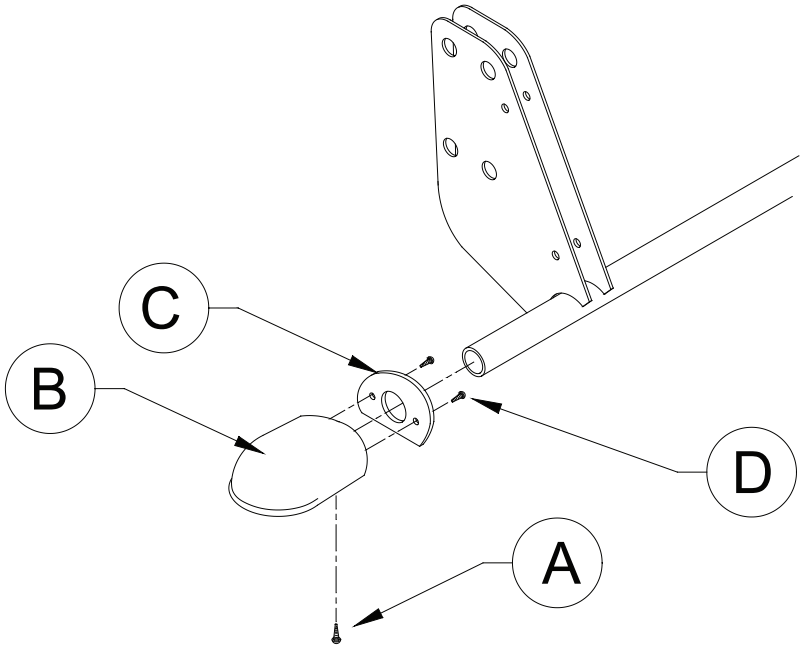
Return To Table of Contents

BED LEG (W/O BED EXIT) REPLACEMENT

Required Tools:

- Medium Phillips Screwdriver
- Block

1. Fully raise the bed.
2. Unplug the bed power cord.
3. Lift the end of the bed requiring a leg replacement and install a block to free the leg from the ground.
4. Remove the screw (A) located under the leg (B).
5. Remove the screws (D) holding the rear cap (C) to the damaged leg. Keep the cap for the replacement leg.
6. Reverse the above steps to install the new leg.



Return To Table of Contents

RAIL REPLACEMENT

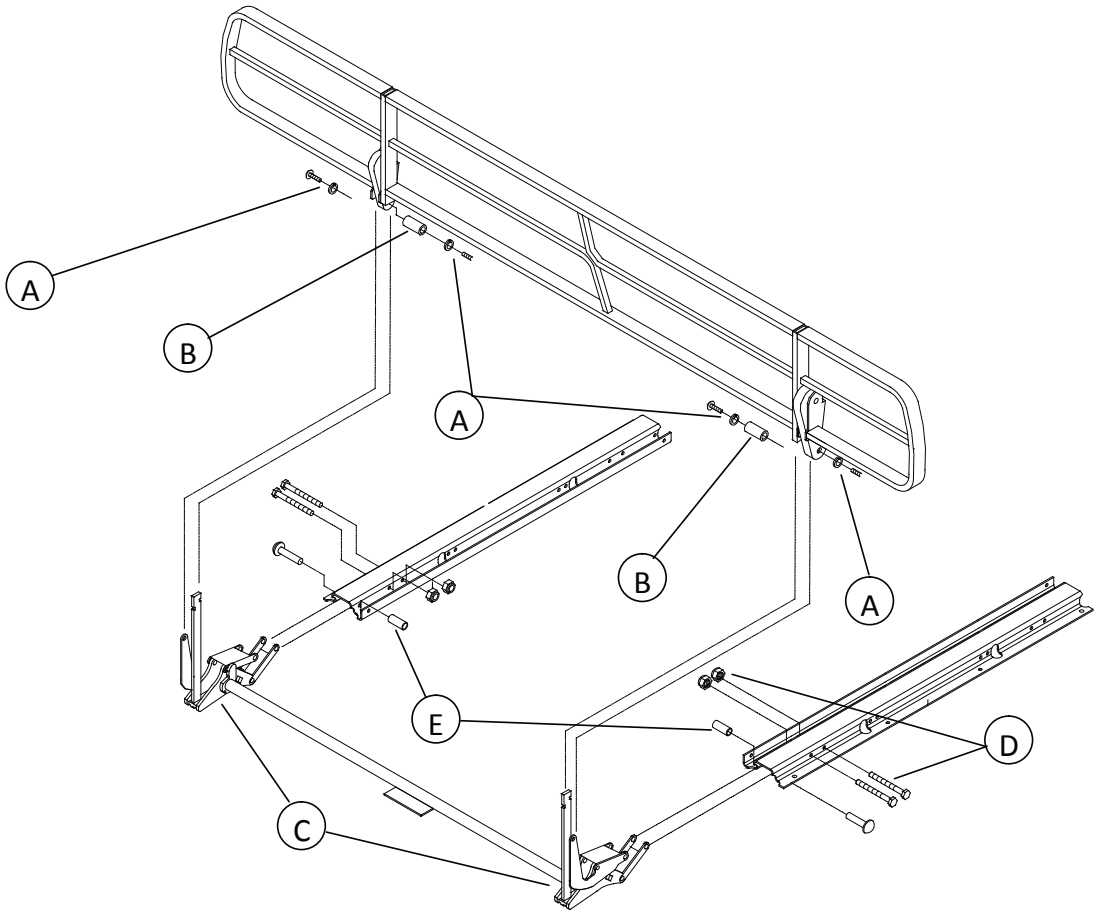
Tools Required:

- Phillips Screwdriver

1. Lower the siderail needing replacement.
2. Remove the two screws, spring washers (A) from the two threaded spacer sleeves (B) holding the rail to the two pivot arms (C). Then slide out the two spacer sleeves.
3. Remove the defective rail.
4. Reverse the above steps to install the new rail and check it for proper operation before returning bed to service.

Note

The new rail must be adjusted to prevent it from wobbling in high position. Refer to siderail adjustement.



Return To Table of Contents

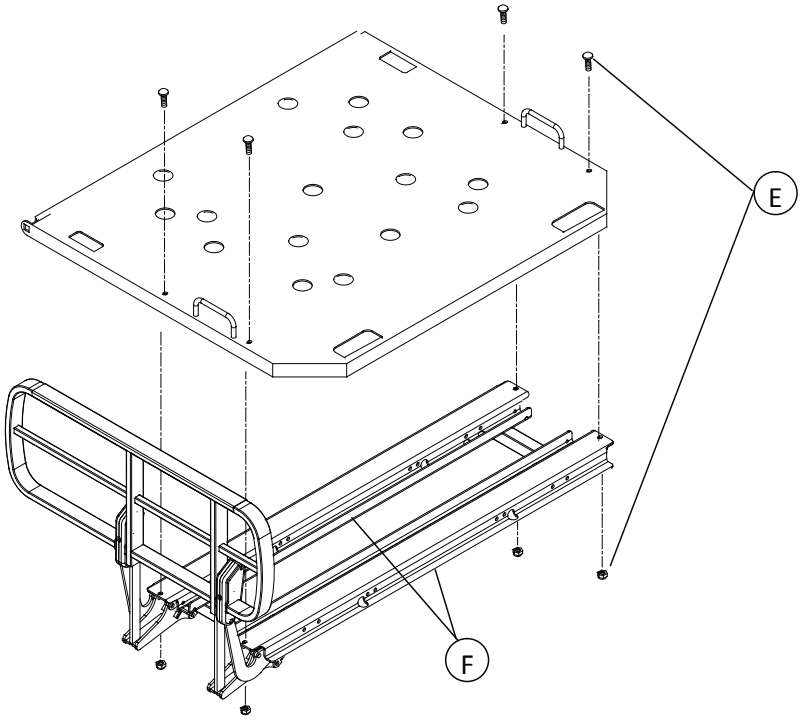
SIDERAIL MECHANISM REPLACEMENT

Tools Required:

- 7/16” Wrench
- 7/16” Socket and Ratchet

All siderail types except for head half-length siderails.

1. Raise defective siderail and ensure it is locked into high position.
2. Raise the head or foot section depending on the siderail needing repair.
3. Remove the four bolts, locknuts (D, see following figure) holding the mechanism to the siderail support.
4. Remove the complete siderail assembly and lay on a workbench.
5. Locate and replace the defective component.
6. Reverse the above steps to install the repaired mechanism and check the siderail for proper operation before returning bed to service.



HEAD HALF-LENGTH SIDERAILS

7. Raise both head siderails in high position and ensure they are securely latched.
8. Manually raise the head section and attach it to the bed to secure its position.
9. Lower the two head half-length siderails and store them under the head section.
10. Remove the four bolts, lock nuts (E) holding the two siderail supports (F) to the head section.
11. Remove the complete head siderail assembly with the help of another person.
12. Locate and replace the defective component.
13. Reverse the above steps to install the repaired mechanism and check siderail for proper operation before returning bed to service.

Note

Do not forget to adjust the siderail if the rail had to be removed during a replacement process.

Return To Table of Contents

SIDERAIL ADJUSTMENT

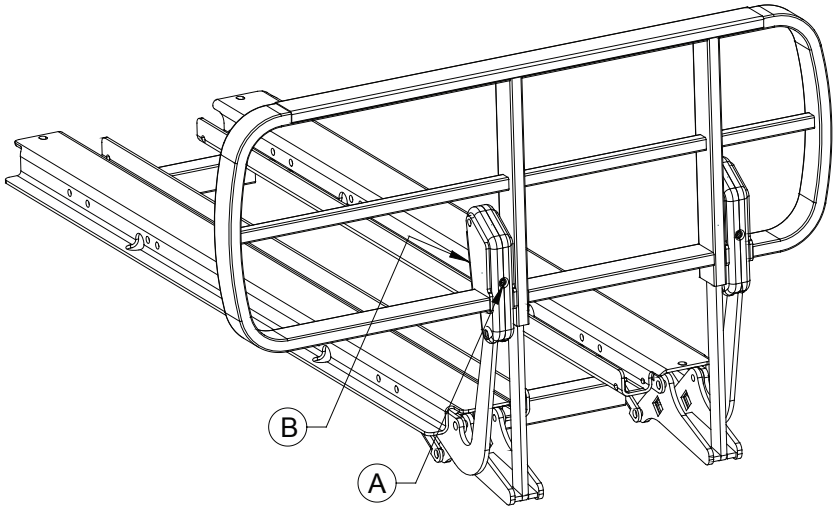
Required Tools:

1/8” Allen Key

Note

Siderails are misadjusted when they wobble in the fully raised position. The following procedure applies to all three siderail types: half-length, three-quarter and full-length.

1. Bring the head and foot sections to the horizontal position.
2. Raise the bed to its highest position.
3. Place the misadjusted siderail in the fully raised position.
4. Insert a 1/8” Allen key in the adjustment hole (A) and turn clockwise to tighten the socket head screws. To properly adjust, simply set the screw against the back plate (B). Do not tighten too much; it will impede the siderail movement.



Return To Table of Contents

Troubleshooting Guide

Problem / Failure	Recommended Action
No current to the bed	1. Is the On/Off switch on the foot end control panel turned on? 2. Is the power cord properly connected to the wall outlet and/or to the power cord connector? 3. Is the power cord severed? Replace if needed. 4. Is the cable of the foot end control panel properly connected? 5. Are the two fuses inside the power cable connector still operational? Are they properly installed in the fuse box? Is the fuse box correctly inserted in its housing (not upside down)? 6. Check the wall outlet.
No bed up or down motion when: 1. The foot end command is used 2. The pendant control (optional) is used	1. Verify the “No current to bed” problem above. 2. Is the pendant control connected to the bed? **1 & 2** Following intensive use, the actuator thermal protection switch has turned motor off. Refrain from using the bed for 20 minutes, the time the motor cools down.
No Fowler up or down motion when: 1. The foot end command is used 2. The pendant control (optional) command is used.	1. Verify the “No current to bed” problem above. 2. Is the pendant control connected to the bed? **1 & 2** Following intensive use, the actuator thermal protection switch has turned motor off. Refrain from using the bed for 20 minutes, the time the motor cools down.
No Knee Gatch up or down motion when: 1. The foot end command is used 2. The pendant control (optional) command is used	1. Verify the “No current to bed” problem above. 2. Is the pendant control connected to the bed? **1 & 2** Following intensive use, the actuator thermal protection switch has turned motor off. Refrain from using the bed for 20 minutes, the time the motor cools down.
The Bed Exit alarm (optional) does not reach the nurse’s desk	1. Is the Bed Exit system activated? 2. Is the bed properly connected to the nurse call system of the care centre through the connection cable provided with the Bed Exit option? 3. Is the nurse call cable in good condition and properly assembled to the bed? 4. Check the nurse call wall outlet.
Pendant control (optional) does not function at all	1. Verify the “No current to bed” problem above. 2. Is the pendant control cable connected to the bed?
Siderail does not latch in the upper position	Lubricate the torsion bar below both ends of the tube supporting the hooks

Return To Table of Contents

Problem / Failure	Recommended Action
On/Off green LED continually blinks	Call our Technical Service department
Bed-on-caster LED does not go on when the bed rests on its casters	Call our Technical Service department
Bed-on-caster LED does not go off when the bed is brought back onto its legs	Call our Technical Service department
The bed does not lower on its casters	Call our Technical Service department
Bed down movement does not stop automatically before the casters reach the floor	Call our Technical Service department
The Bed Exit system (optional) functions erratically	1. Verify the “No current to bed” problem at the beginning of the troubleshooting guide. 2. Is the bed at the same height the system was armed? 3. Is the bed properly seated on its legs? The load cells are housed in the bed legs, thus the bed must firmly rest on its legs for the Bed Exit system to operate. 4. Have you just zeroed the system and tried to activate it without adding at least 5 lb on the bed between the two operations? If so, the Bed Exit LED will go on when you press the Arm/Disarm key but will go off as soon as you release the key. The system needs a weight difference of at least 5 lb (2.3 kg) to function following its zeroing. 5. Does the Bed Exit LED goes on and constantly flashes when you proceed with the zeroing of the system? If it is the case, the Bed Exit control board or the load cells may be suspected as the cause of the problem. Proceed directly with the load cell verification procedure. If nothing happens (LED does not go on), perform a visual verification of the following components that may be suspected as the cause of the problem: • Membrane of the foot end control panel and its wiring • Interface cable between the Bed Exit control board and the foot end control panel • Connection of all the cables to the Bed Exit control board • Bed Exit control board: is the board LED still flashing? If not, the board is defective and must be replaced. 6. If the problem still persists, you will have to check the four load cells. (See Load Cell Verification)

Return To Table of Contents

Quick Reference Part List

	Part Number	List
Electrical System Components		
Bed Exit PC Board (Optional)	14-1350	OL140220
Motor Control PC Board	QDF20-0180	OL140219/ OL140220
Load Cell (Optional)	QDF14-1367	OL140122
Connection Cable - Connector to Motor PC Board	QDF14-1320	OL140219/ OL140220
Connection Cable - Foot End Ctrl Panel to Motor PC Board (w/Bed Exit)	QDF14-1318	OL140220
Connection Cable - Foot End Ctrl Panel to Motor PC Board (w/o Bed Exit)	QDF14-1065	OL140219
Power Connector	QDF9574	OL140219/ OL140220
Fast Acting Fuse, 10A, 250V	QDF8078	OL140219/ OL140220
Foot End Control Panel - w/o Bed Exit	14-1234	OP140132
Foot End Control Panel - w/Bed Exit	14-1336	OP140133
120V Power Cord with Hospital Grade Molded Plug	QDF14-1375	OL140127
Y Cable	QDF14-1323	OL140220
Night Light	QDF9509	OL140043
Motor PC Board Support	QDF8011	OL140219/ OL140220
Micro Switch	QDF9535	OL140219/ OL140220
Micro Switch Connection Wire	QDF14-1062	OL140219/ OL140220
Long Mono Connecting Cable (Optional)	QDF14-1345	OL140140
Buzzer	QDF5095	OL140140
Electric Actuator System Components		
S.A. Thigh Actuator	14-1471	OL140219/ OL140220
S.A. Head Actuator	14-1472	OL140219/ OL140220
Hi-Lo Motor	QDF14-1441	OL140219/ OL140220
Long Extension Cable -Thigh Actuator	QDF14-1063	OL140219/ OL140220
Short Extension Cable – Head Actuator	QDF14-1064	OL140219/ OL140220

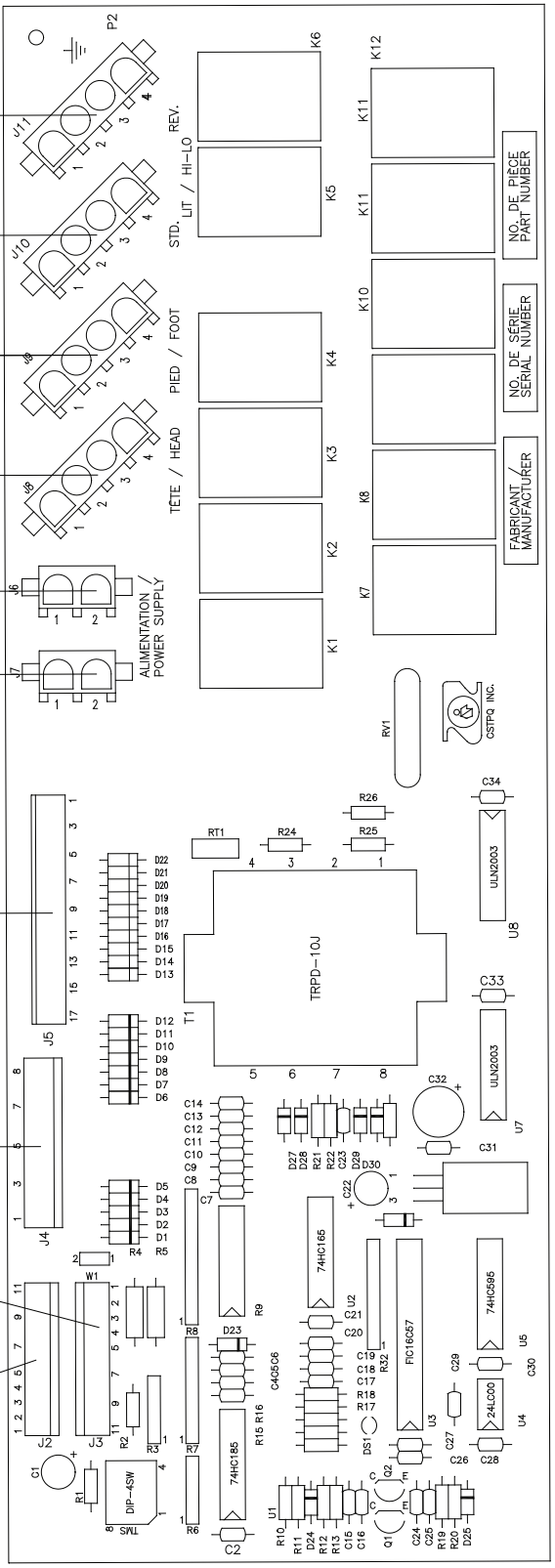
Return To Table of Contents

Quick Reference Part List

Siderail Assembly Components		
Foot Half-Length Siderail Assembly (Left)	14-1233G	OL140038
Foot Half-Length Siderail Assembly (Right)	14-1232G	OL140038
PVC Cover for the Foot Half-Length Siderail	14-1095	OL140038
Head Half-Length Siderail Assembly (Left)	14-1228G	OL140038/ OL140059
Head Half-Length Siderail Assembly (Right)	14-1227G	OL140038/ OL140059
PVC Cover for the Head Half-Length Siderail	14-1094	OL140038/ OL140059
Full-Length Siderail Assembly (Left)	14-1231G	OL140039
Full-Length Siderail Assembly (Right)	14-1230G	OL140039
PVC Cover for the Full-Length Siderail	14-1097	OL140039
Three-Quarter Length Siderail Assembly	14-1229G	OL140040
PVC Cover for Three-Quarter Length Siderail	14-1096	OL140040
Shoulder Roller “Buttite” 1/4” x 17/64” x 3/4”	14-1361	OL140038/ OL140039/ OL140040/ OL140059
Hi-Lo Mechanism Components		
Acme Nut Bracket	QPA13-0674	OL140122
Left Acme Nut	QP13-0676-01	OL140122
Split Pin 1/16” dia. x 1 1/2”	VG40B0240	OL140122
Miscellaneous Parts		
Mattress Retainer	QP14034-07	L14-009
Bed Leg Cover - w/Bed Exit (Optional)	QP14-1308	OL140122
Bed Leg - w/Bed Exit (Optional)	QP14-1329-07	OL140122
Bed Leg - w/o Bed Exit (Optional)	QP14-1155-07	OL140121
Bumper Wheel 1-3/4” dia.	QPC-14-0321	L14-042
3” Casters	RA3S	OL140045
Sturdy 3” Casters (Optional)	RF3CSW	OL140126
Rue Ring Cotter	QDF7878	
Sand Grey Aerosol Spray Paint	PD016	
OG2 Grease	M0027	
Shoulder Spacer dia 5/16 X 0.210’’	QDF17-0020	
Female Screw Lock (for Optional Scale Control Board)	QDF2047	

Return To Table of Contents

Wiring diagram - FL14E3 Motor Control Board (20-0180)



J2	AUXILARY OUTPUT
J2-10	LIMIT SWITCH
J2-11	LIMIT SWITCH

J3	AUXILIARY OUTPUT
J3-7	+12V(SWITCH)
J3-9	+12VK(BED SWITCH)

J4	PATIENT CONTROL
J4-2	CTRL HEAD UP
J4-3	CTRL HEAD DOWN
J4-4	CTRL BED UP
J4-5	CTRL BED DOWN
J4-6	CTRL THIGH UP
J4-7	CTRL THIGH DOWN
J4-8	COMMON

J5	FOOT END CTRL PANEL
J5-1	COMMON
J5-2	CTRL HEAD UP
J5-3	CTRL HEAD DOWN
J5-4	CTRL THIGH UP
J5-5	CTRL THIGH DOWN
J5-6	CTRL BED UP
J5-7	CTRL BED DOWN
J5-8	CTRL BED ON CASTERS
J5-12	LIMIT SWITCH (NOT USED)
J5-13	ON/OFF GREEN LED
J5-16	BED ON CASTERS LED
J5-17	LED +5V

J6, J7	120V POWER SUPPLY
J7-1	IN LINE AC
J7-2	IN NEUTRAL AC
J6-1	IN LINE AC
J6-2	IN NEUTRAL AC

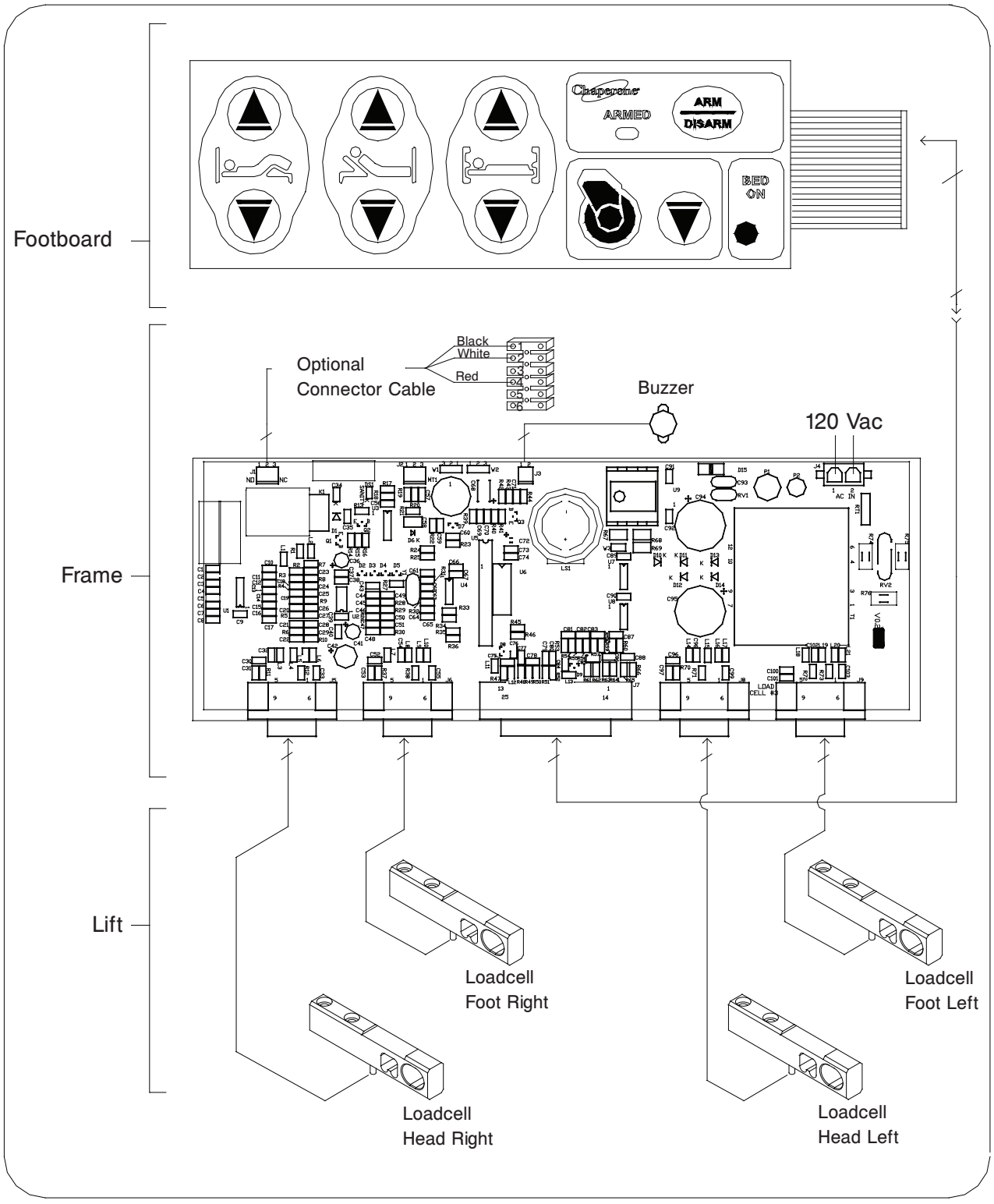
J8	HEAD MOTOR
J8-1	GROUND
J8-2	HEAD DOWN
J8-3	NEUTRAL
J8-4	HEAD UP

J9	THIGH MOTOR
J9-1	GROUND
J9-2	THIGH DOWN
J9-3	NEUTRAL
J9-4	THIGH UP

J10	HI-LO MOTOR
J10-1	GROUND
J10-2	BED DOWN
J10-3	NEUTRAL
J10-4	BED UP

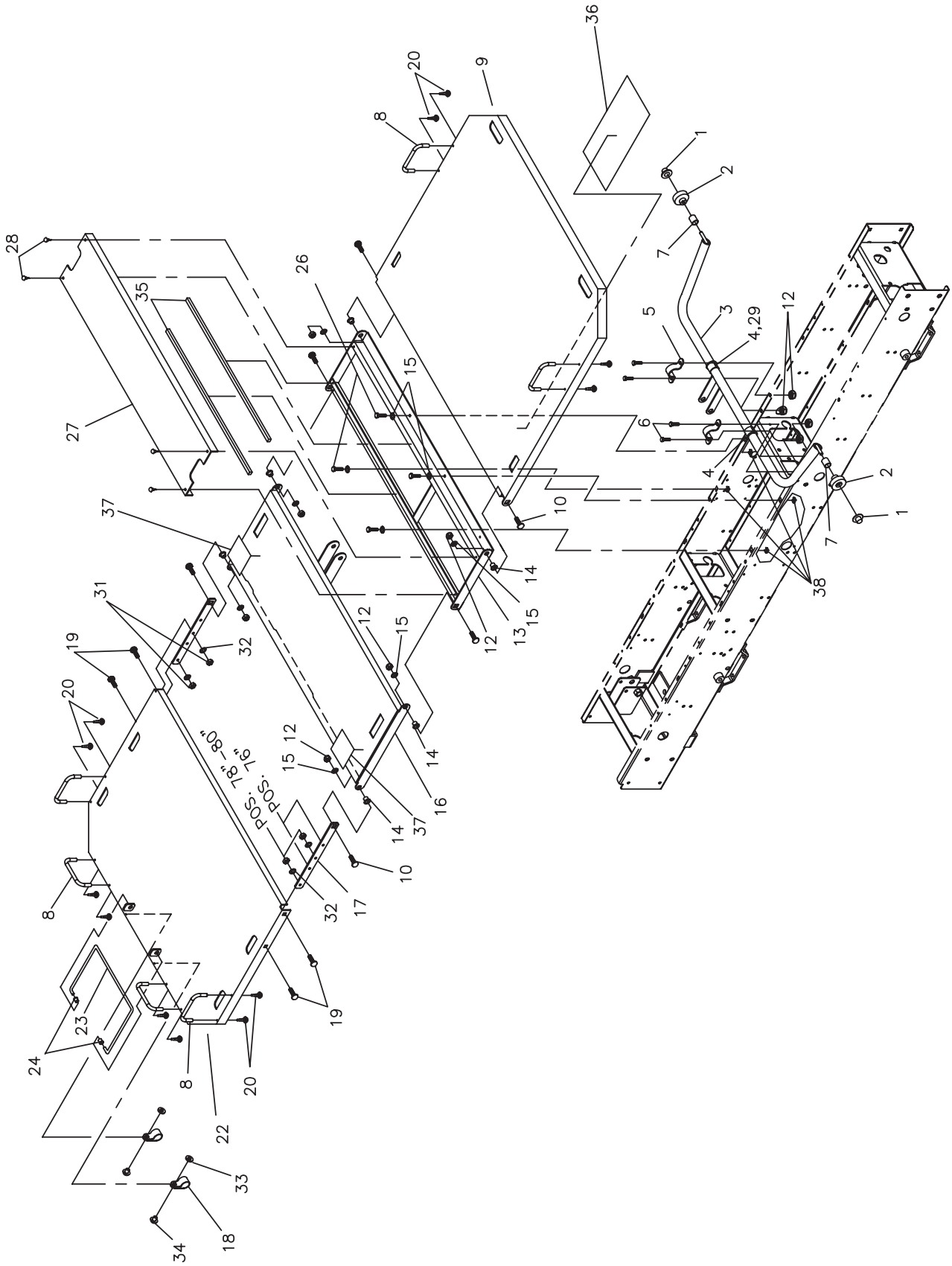
Return To Table of Contents

Wiring Diagram



Return To Table of Contents

Mattress Support Assembly - L14-009G



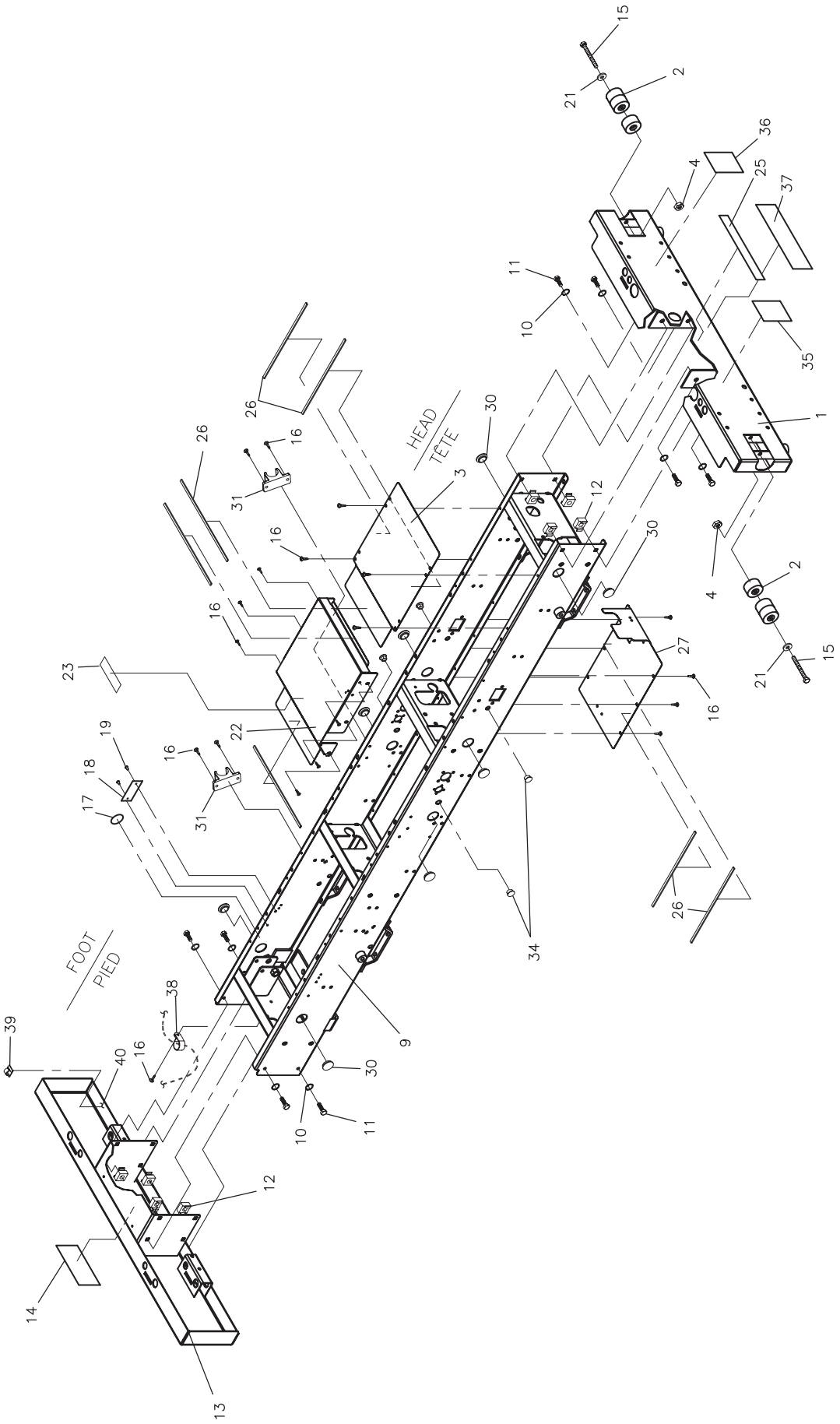
Return To Table of Contents

Mattress Support Assembly - L14-009G

Item	Part No	Description	Qty
1	VE70A1O	Cap Nut	2
2	14-1204	Lift Lever Wheels	2
3	14-1133G	Head Section Lever	1
4	QPN-18121	Molded Frame Bushing	2
5	14662Z	Lift Lever Support	2
6	VB15A1O28	Hex Bolt	4
7	VW60C161214	Nylon Spacer	2
8	QP14034-07	Mattress Retainer	6
9	14-1388G	Head Section	1
10	VB35A1O32	Carriage Bolt	6
12	VE30A1O	Nylon Hex Locknut	10
13	14-1442G	Center Section	1
14	QDF17-0020	Shoulder Spacer	6
15	VW10A10	Flat Washer	10
16	14-1387G	Thigh Section	1
17	18-0002G	Mattress Support Extension Plate	2
18	QDF9522	Wire Clip	2
19	VB35A1O24	Carriage Bolt	4
20	VV83A9G24	Pan Head Tapping Screw	12
22	14-1386G	Foot Section	1
23	14-1152Z	Support Rod	1
24	QPNI2404	Nylon Shoulder Bushing	2
26	VB15A1O24-S	Hex Bolt	4
27	14-0014G	Sleeping Surface Plate	1
28	VV83A9G16	Pan Head Tapping Screw	4
29	M0019	Petro Canada OG2 Grease	.01 kg
31	VE20A1O	Jam Nut	4
32	VW20A10	Spring Washer	4
33	VW10A06	Flat Washer	2
34	VR11H64	Pop Rivet	2
35	QDF132X	Weather Strip Tape	5 ft
36	QE14400-F	Label - Automated Test Results	1
37	QE71-0801-T	Label - Mattress Size	2
38	VE90A10	Retaining Nut	4

Return To Table of Contents

Bed Frame - L14-042G



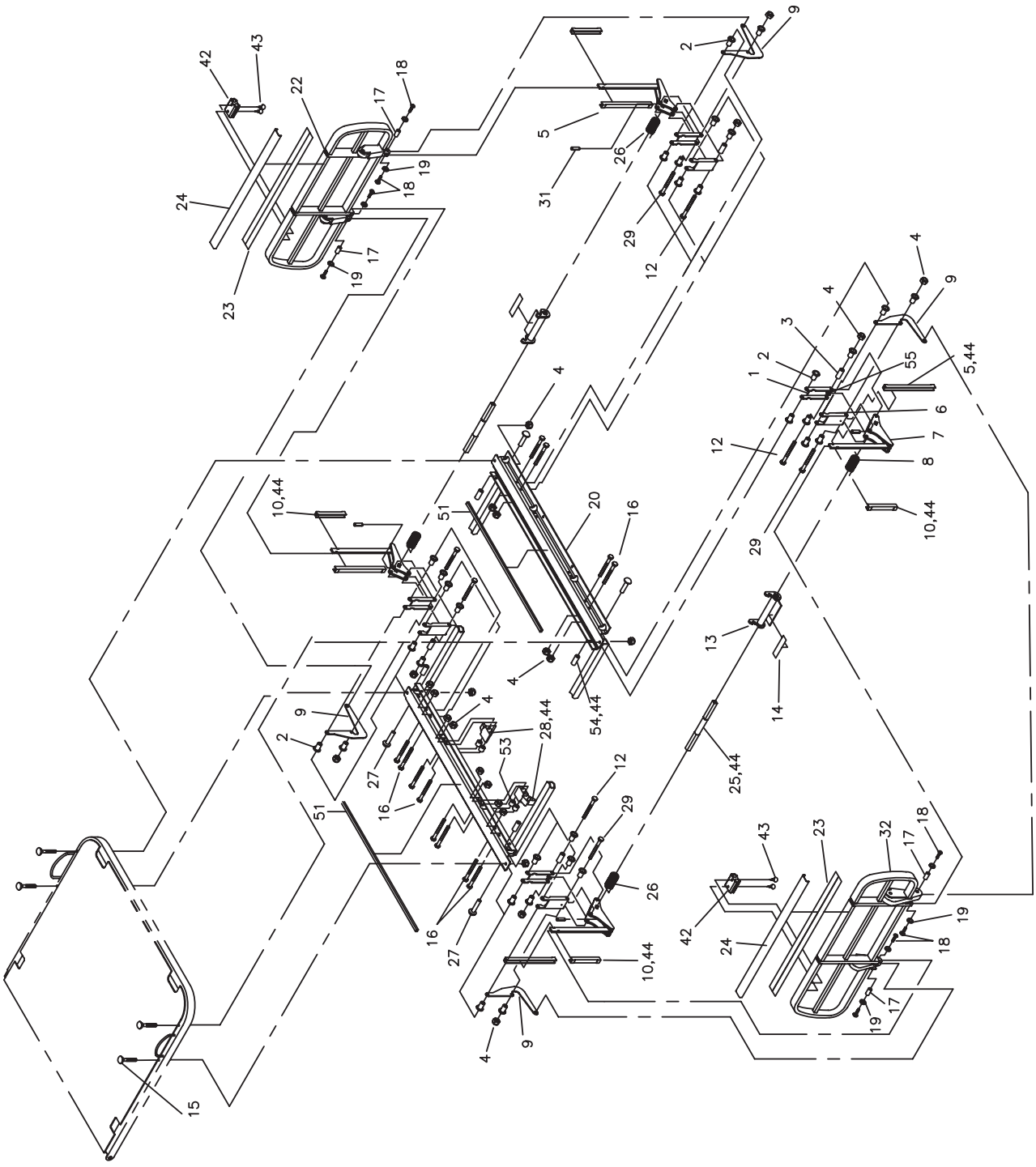
Return To Table of Contents

Bed Frame - L14-042G

Item	Part No	Description	Qty
1	14-1287G	Head End Casing	1
2	QPC-14-0321	Bumper Wheel	6
3	14-1187G	Cover Plate	1
4	VE30A1O	Nylon Hex Locknut	2
9	14-1444G	Frame	1
10	VW20A08	Lock Washer	8
11	VB15A1N24	Hex Bolt	8
12	VE90A08	Retaining Nut	8
13	14-1168G	Foot End Casing	1
14	QE71-0305	Label - Emergency Crank Handle	1
15	VB15A1O62	Hex Bolt	2
16	VV83A9G16	Pan Head Tapping Screw	21
17	QE18557-T	Label - Made in Canada	1
18	QE71-0136-T	Serial Number Plate	1
19	VR11H43	Pop Rivet	2
21	VW10A10	Flat Washer	2
22	14-1371G	Lift Lever Cover	1
23	QE71-0115-T	Label - Electric Shock Hazard	1
25	QE71-0737-T	Label - Grounding Reliability	1
26	QDF132X	Weather Strip Tape	8 ft
27	14-1463G	PC Board Cover Plate	1
30	QDFP1514	Domed Cap	8
31	QPAG1801	Rod Support	2
34	QPPF1518	Double “D” Cap	4
35	QE71-0800-T	Label - Ground	1
36	QE71-0298-T	Label - Serious Injuries	1
37	QE71-0113-T	Label - Electric	1
38	QDF9520	Wire Clip	1
39	QDF7902	Wire Clip with Adhesive	1
40	M0005	Cyanoacrylate Glue	.0032

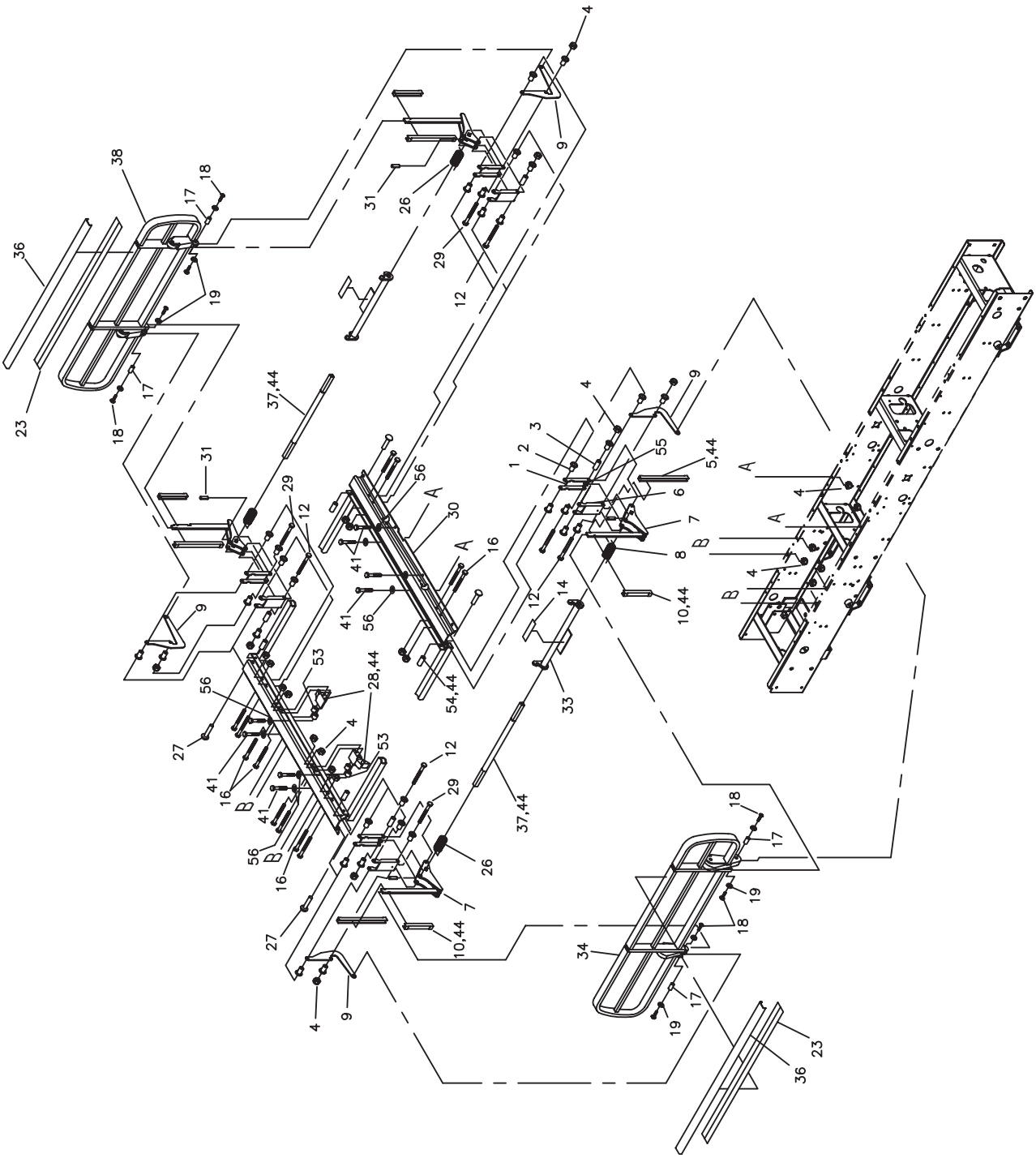
Return To Table of Contents

Half-Length Siderails - OL140038G



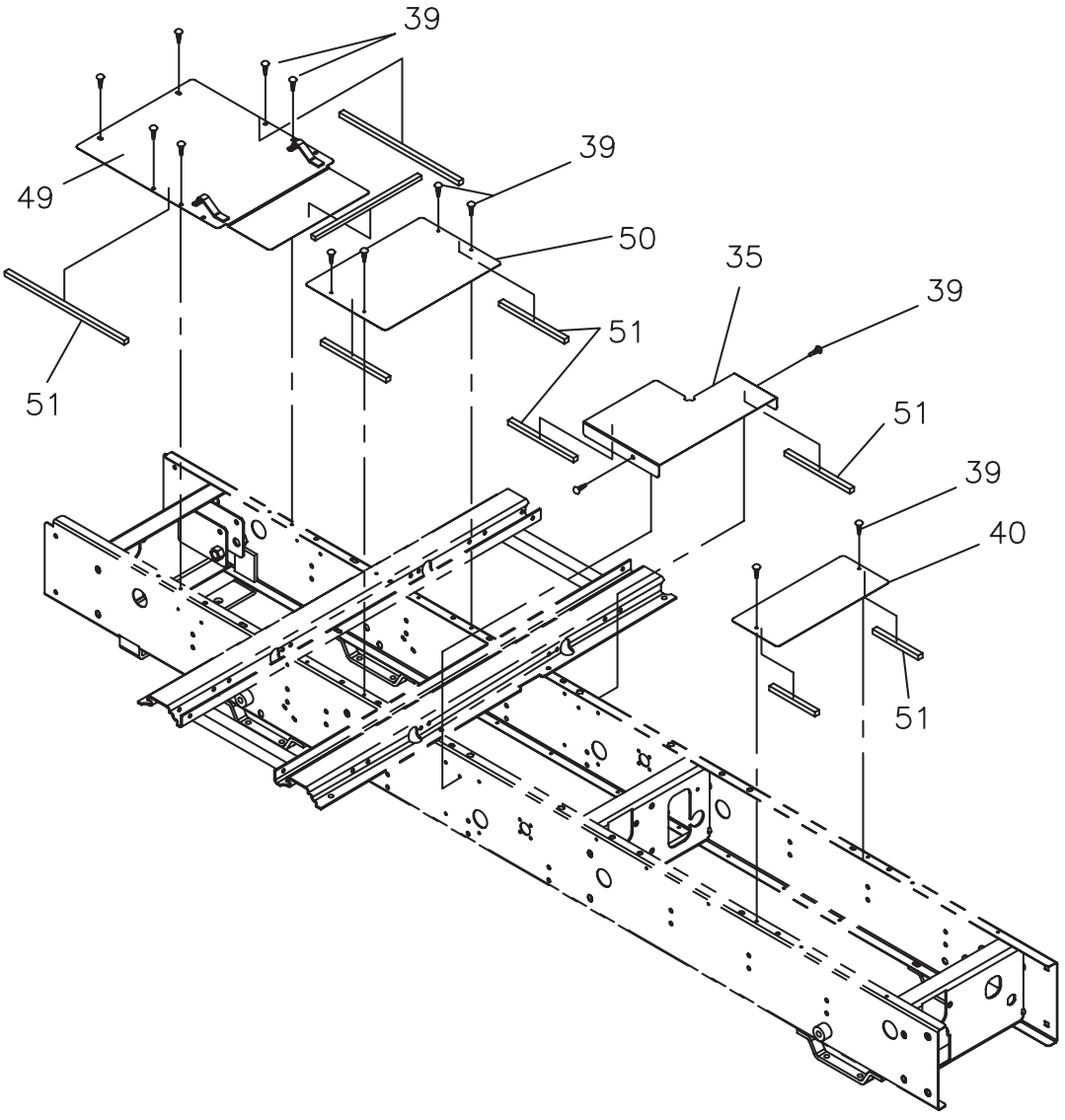
Return To Table of Contents

Half-Length Siderails - OL140038G



Return To Table of Contents

Half-Length Siderails - OL140038G



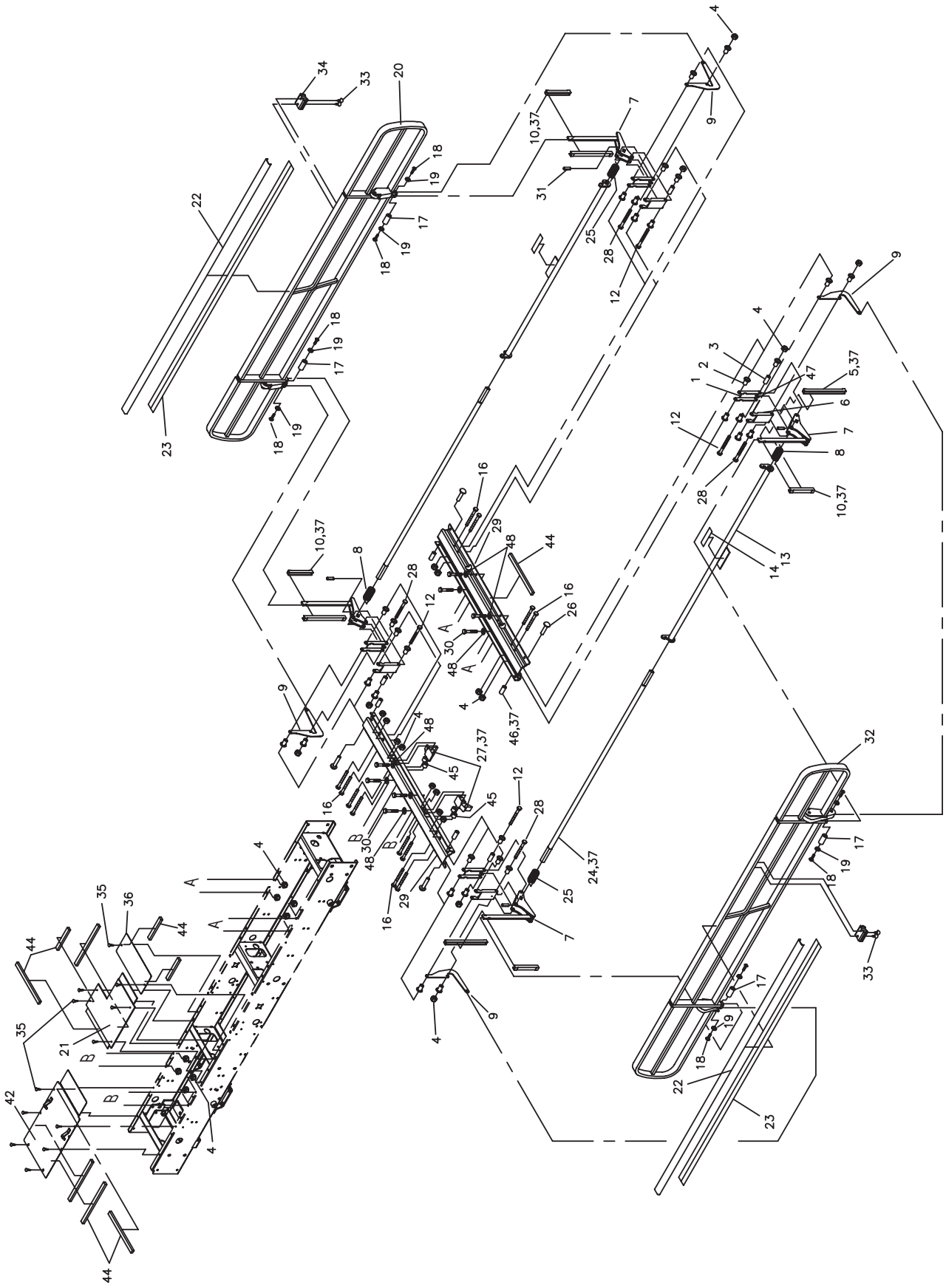
Return To Table of Contents

Half-Length Siderails - OL140038G

Item	Part No	Description	Qty
1	14-0408Z	Rear Pivot	1
2	QPNC0816	Machine Screw Insulator	64
3	VW60A080924	Shoulder Roller	8
4	VE30A1N	Nylon Hex Locknut	58
5	QPN-14-0655	Siderail Guide	8
6	14-0407Z	Front Pivot	8
7	14-1054G	Siderail Arm	8
8	QRD14-0745	Siderail Spring, Right	4
9	14-1086G	Arm Pivot	8
10	QPN-14-0749	Siderail Guide	8
12	VB15A1N50	Hex Bolt	8
13	14-0660G	Tube for Hooks, Head	2
14	QE71-0123-T	Label - Lift Up	4
15	VB35A1N24	Carriage Bolt	4
16	VB15A1N54	Hex Bolt	24
17	VW60D0E24	Threaded Spacer	8
18	VV33A9E08	Pan Head Machine Screw	16
19	VW20A06	Spring Washer	16
20	14-1092G	Siderail Support, Head	1
22	14-1227G	Siderail Assembly, Head Right	1
23	QDF7826	3M Adhesive Tape	16 ft
24	14-1094	Extrusion, Head	2
25	14-0669Z	Torsion Tube, Head	2
26	QRD14-0746	Siderail Spring, Left	4
27	VR23A0837	Tubular Rivet	8
28	QPN-14-0453	Bumper Hook	4
29	VB15A1N52	Hex Bolt	8
30	14-1093G	Siderail Support, Foot	1
31	VG10B0636	Spring Pin	8
32	14-1228G	Siderail Assembly, Head Left	1
33	14-1130G	Tube for Hooks, Foot	2
34	14-1233G	Siderail Assembly, Foot Left	1
35	14-0545G	Cover Plate	1
36	14-1095	Extrusion, Foot	2
37	14-1129Z	Torsion Tube, Foot)	2
38	14-1232G	Siderail Assembly, Foot Right	1
39	VV83A9G16	Pan Head Tapping Screw	14
40	14-0623G	Cover	1
41	VB15A1N24	Hex Bolt	8
42	14-0888	Perforated Wire Holder	2
43	VV23A9E24	Pan Head Tapping Screw	4
44	M0019	Petro Canada OG2 Grease	.01 kg
49	14-0544G	Foot Cover Plate	1
50	14-0561G	Cover Plate	1
51	QDF132X	Weather Strip Tape	14 ft
53	VW60C081612	Nylon Spacer	8
54	14-1361	Shoulder Roller	8
55	VW10C241002	Nylon Washer	8
56	VWA10A08	Flat Washer	8

Return To Table of Contents

Full-Length Siderails - OL140039G



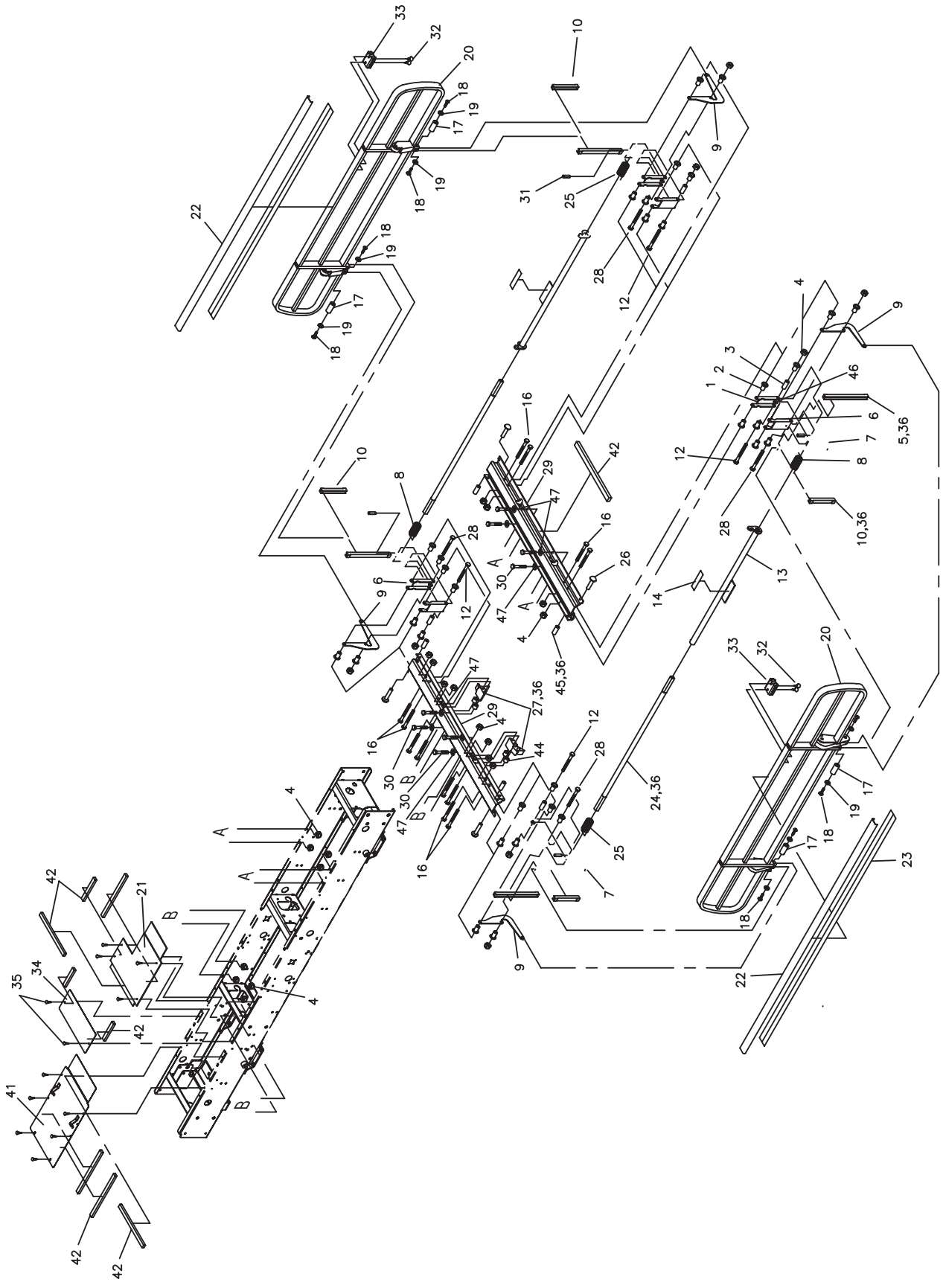
Return To Table of Contents

Full-Length Siderails - OL140039G

Item	Part No	Description	Qty
1	14-0408Z	Rear Pivot	4
2	QPNC0816	Machine Screw Insulator	32
3	VW60A080924	Shoulder Roller	4
4	VE30A1N	Nylon Hex Locknut	28
5	QPN-14-0655	Siderail Guide	4
6	14-0407Z	Front pivot	4
7	14-1054G	Siderail Arm	4
8	QRD14-0745	Siderail Spring, Right	2
9	14-1086G	Arm Pivot	4
10	QPN-14-0749	Siderail Guide	4
12	VB15A1N50	Hex Bolt	4
13	14-0663G	Tube for Hooks, Foot	2
14	QE71-0123-T	Label - Lift up	2
16	VB15A1N54	Hex Bolt	12
17	VW60D0E24	Threaded Spacer	4
18	VV33A9E08	Pan Head Machine Screw	8
19	VW20A06	Spring washer	8
20	14-1230G	Full- length siderail assembly - right	1
21	14-0516G	Cover plate	1
22	14-1097	Extrusion	2
23	QDF7826	3M adhesive tape	24 ft
24	14-0672Z	Torsion tube	2
25	QRD14-0746	Siderail spring - left	2
26	VR23A0837	Tubular rivet	4
27	QPN-14-0453	Bumper hook	2
28	VB15A1N52	Hex bolt	4
29	14-1080G	Siderail support	2
30	VB15A1N24	Hex bolt	8
31	VG10B0636	Spring Pin	4
32	14-1231G	Siderail Assembly, Left	1
33	VV23A9E24	Pan Head Tapping Screw	4
34	14-0888	Perforated Wire Holder	2
35	VV83A9G16	Pan Head Tapping Screw	12
36	14-0623G	Cover	1
37	M0019	Petro Canada OG2 grease	.01 kg
42	14-1158G	Foot Cover Plate	1
44	QDF132X	Weather Strip Tape	7 ft
45	VW60C081612	Nylock Spacer	4
46	14-1361	Roller	4
47	VW10C241002	Nylon Washer	4
48	VWA10A08	Flat Washer	8

Return To Table of Contents

Three-Quarter Siderails - OL140040G



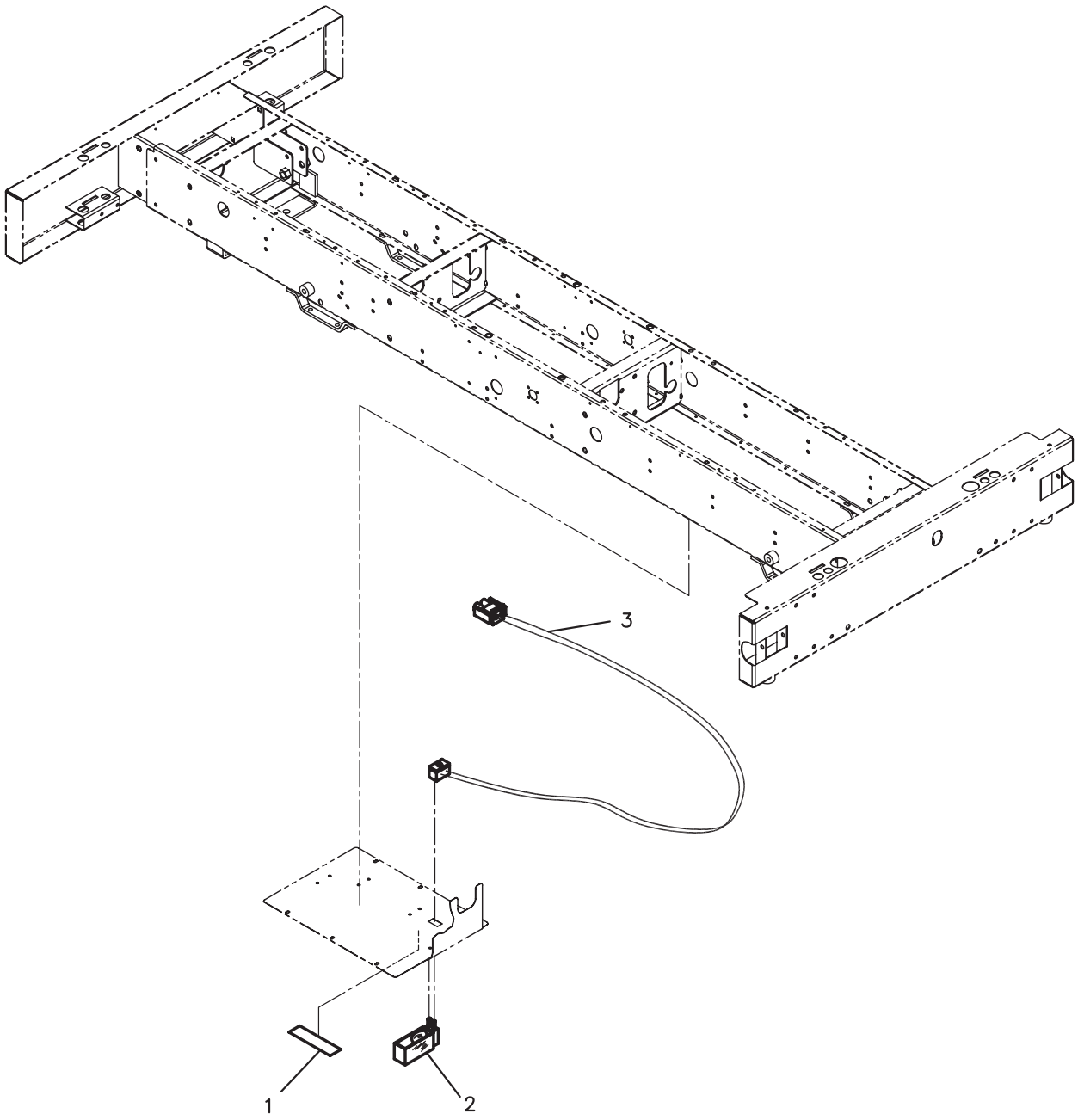
Return To Table of Contents

Three-Quarter Siderails - OL140040G

Item	Part No	Description	Qty
1	14-0408Z	Back Pivot	4
2	QPNC0816	Machine Screw Insulator	32
3	VW60A080924	Shoulder Roller	4
4	VE30A1N	Nylon Hex Locknut	28
5	QPN-14-0655	Siderail Guide	4
6	14-0407Z	Front Pivot	4
7	14-1054G	Siderail Arm	4
8	QRD14-0745	Siderail Spring, Right	2
9	14-1086G	Arm Pivot	4
10	QPN-14-0749	Siderail Guide	4
12	VB15A1N50	Hex Bolt	4
13	14-0662G	Tube for Hooks	2
14	QE71-0123-T	Label - Lift Up	2
16	VB15A1N54	Hex Bolt	12
17	VW60D0E24	Tapped Spacer	4
18	VV33A9E08	Pan Head Machine Screw	8
19	VW20A06	Spring Washer	8
20	14-1229G	Siderail Assembly	2
21	14-0516G	Cover Plate	1
22	14-1096	Extrusion	2
23	QDF7826	3M Adhesive Tape	18 ft
24	14-0671Z	Torsion Tube	2
25	QRD14-0746	Siderail Spring, Left	2
26	VR23A0837	Tubular Rivet	4
27	QPN-14-0453	Bumper Hook	2
28	VB15A1N52	Hex Bolt	4
29	14-1080G	Siderail Support	2
30	VB15A1N24	Hex Bolt	8
31	VG10B0636	Spring Pin	4
32	VV23A9E24	Pan Head Tapping Screw	4
33	14-0888	Perforated Wire Holder	2
34	14-0623G	Cover	1
35	VV83A9G16	Pan Head Tapping Screw	12
36	M0019	Petro Canada OG2 Grease	.01 kg
41	14-1158G	Foot Cover Plate	1
42	QDF132X	Weather Strip Tape	7 ft
44	VW60C081612	Nylon Spacer	4
45	14-1361	Shoulder Roller	4
46	VW10C241002	Nylon Washer	4
48	VWA10A08	Flat Washer	8

Return To Table of Contents

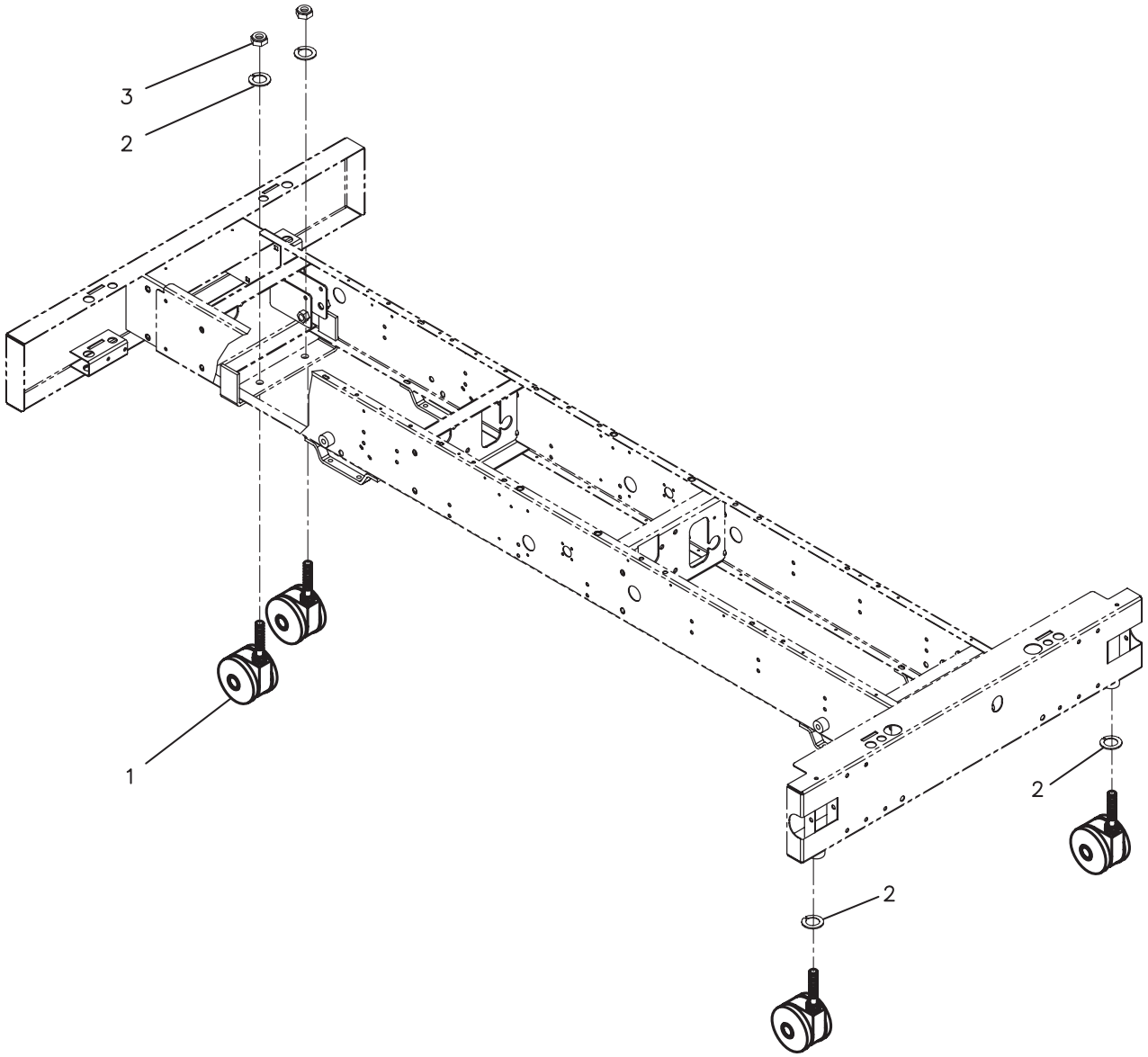
Night Light - OL140043



Item	Part No	Description	Qty
1	QE71-0068-T	Label - Night Light	1
2	QDF9509	Night Light	1
3	QDF18825	Night Light Outlet	1

Return To Table of Contents

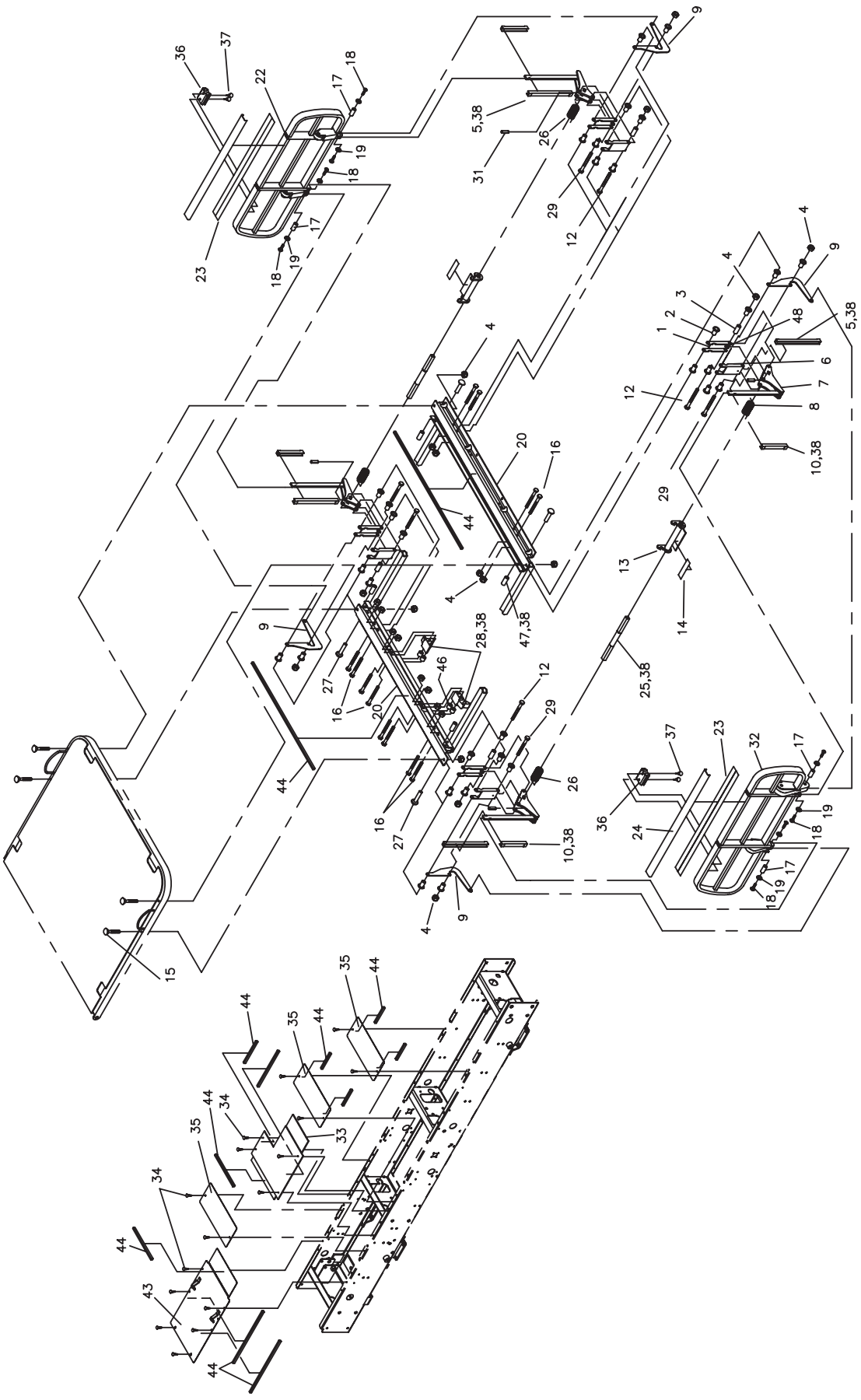
Three Inches Casters - OL140045



Item	Part No	Description	Qty
1	RA3S	3” Caster	4
2	VW20A16	Spring Washer	4
3	VE10A1R	Hex Nut	2

Return To Table of Contents

Head Half-Length Siderails - OL140059G



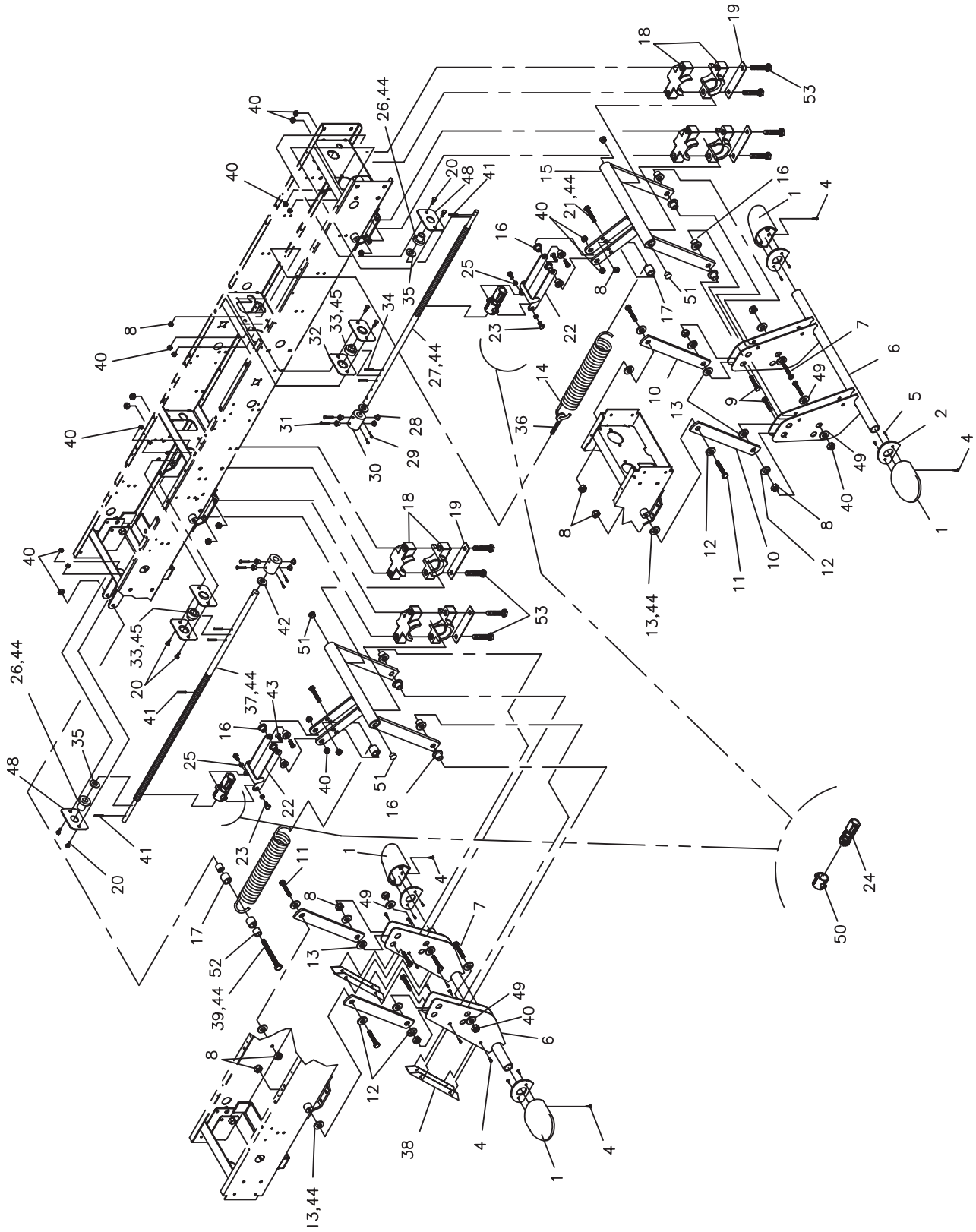
Return To Table of Contents

Head Half-Length Siderails - OL140059G

Item	Part No	Description	Qty
1	14-0408Z	Back pivot	4
2	QPNC0816	Machine screw insulator	32
3	VW60A080924	Shoulder roller “Buttite”	4
4	VE30A1N	Nylon hex. locknut	22
5	QPN-14-0655	Siderail guide	4
6	14-0407Z	Front pivot	4
7	14-1054G	S.A. Siderail arm	4
8	QRD14-0745	Siderail spring - right	2
9	14-1086G	Arm pivot	4
10	QPN-14-0749	Siderail guide	4
12	VB12A1N50	Hex. bolt	4
13	14-0660G	S.A. Tube for hooks (head)	2
14	QE71-0123-T	Sticker - Red lines	2
15	VB35A1N24	Carriage bolt	4
16	VB15A1N54	Hex. bolt	12
17	VW60D0E24	Tapped spacer	4
18	VV33A9E08	Machine screw pan Phillips	8
19	VW20A06	Spring washer	8
20	14-1092G	S.A. Siderail support (head)	1
22	14-1227G	Half-length siderail assembly, head, right	1
23	QDF7826	3M adhesive tape	8 ft
24	14-1094	Extrusion (head)	2
25	14-0669Z	Torsion tube (head)	2
26	QRD14-0746	Siderail spring - left	2
27	VR23A0837	Tubular rivet	4
28	QPN-14-0453	Bumper hook	2
29	VB15A1N52	Hex bolt	4
31	VG10B0636	Spring pin	4
32	14-1228G	Half-length siderail assembly, head-left	1
33	14-0516G	Cover plate	1
34	VV83A9G16	Tapping screw pan Phillips	16
35	14-0623G	Cover	3
36	14-0888	Perforated wire holder	2
37	VV23A9E24	Tapping screw Phillips pan head	4
38	M0019	Petro Canada OG2 grease	.01 kg
43	14-1158G	S.A. Foot cover plate	1
44	QDF132X	“Perma-Stick” anti-cold stopper	16 ft
46	VW60C081612	Spacer sleeve	4
47	14-1361	Roller	4
48	VW10C241002	Nylon washer	4

Return To Table of Contents

Hi-Lo Mechanism w/o Bed Exit - OL140121G



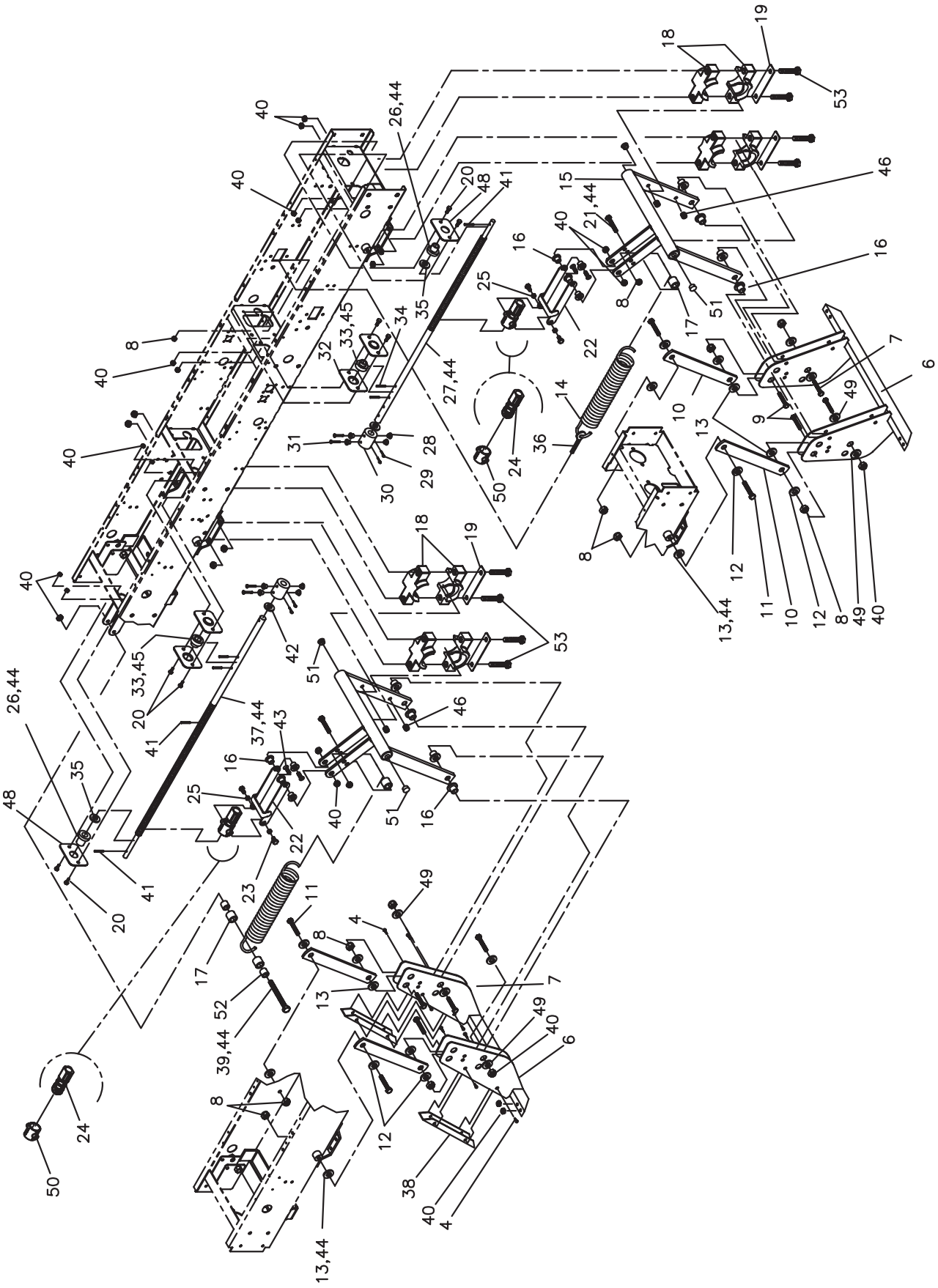
Return To Table of Contents

Hi-Lo Mechanism w/o Bed Exit - OL140121G

Item	Part No	Description	Qty
1	QP14-1155-07	S.A. Bed Leg	4
2	QP14-0539-07	Rear cap	4
4	VV83A9G16	Tapping screw pan Phillips	12
5	VV23A9E24	Tapping screw Phillips pan head	8
6	14-1148G	S.A. Parallel leg	2
7	VB15A1O48	Hex bolt	4
8	VE30A1P	Nylon hex locknut	11
9	VB15A1P40	Hex bolt	4
10	14-0765G	Pivoting lever stabilizer	4
11	VB15A1P44	Hex bolt	4
12	VW10A12	Washer	8
13	VW10C122802	Nylon washer	8
14	QRE18130	Extension spring	2
15	14-1150G	S.A. Elevation lever	2
16	QDF17-0020	Shoulder spacer	16
17	VW60C201320	Nylon spacer	4
18	QPN-18-0055	Moulded Bearing	8
19	17-0251Z	Reinforcement plate	4
20	VB15A1O28	Hex bolt	8
21	VB15A1P50	Hex bolt	2
22	14-1200P	S.A. Harness	2
23	VB15A1P32-S	Hex bolt	4
24	QP13-0676-01	Left Stub Acme nut	2
25	14403Z	Spacer	4
26	QPN-13-0159	Nylon bushing 1/2” ID	2
27	14-1173Z	Hi-Lo mechanism screw (head)	1
28	QPNC0607	Nylon shoulder washer	8
29	VG40B0240	Split pin	4
30	QPC-18145	Supple coupling	2
31	VG50A0644	Clevis pin	4
32	493G	Bearing plate	4
33	QBAS204012	Bearing	2
34	VG10B0732	Spring pin	4
35	VW10B163201	Spacing washer	2
36	14-0952	Spring adjustment screw	1
37	14-1277Z	Elevation mechanism screw (foot)	1
38	14-1179G	Parallel leg protective plate	2
39	VB15A1060	Hex bolt	1
40	VE30A10	Nylon hex locknut	25
41	VG10B0630	Spring pin	3
42	VW10C122002	Nylon washer	2
43	VV11A1O36	Flat head hex socket cap screw	4
44	M0019	Petro Canada OG2 grease	.15 kg
45	M0008	Threadlocker - (blue)	.32 ml
48	14-1153G	Plain bearing	2
49	VW10A10	Flat washer	8
50	QPA13-0674	Nut bracket	2
51	QPPF1512	Dia. 9/16” tubing cap	4
52	VW60C161214	Nylon spacer	2
53	VB15A1O54	Hex bolt	8

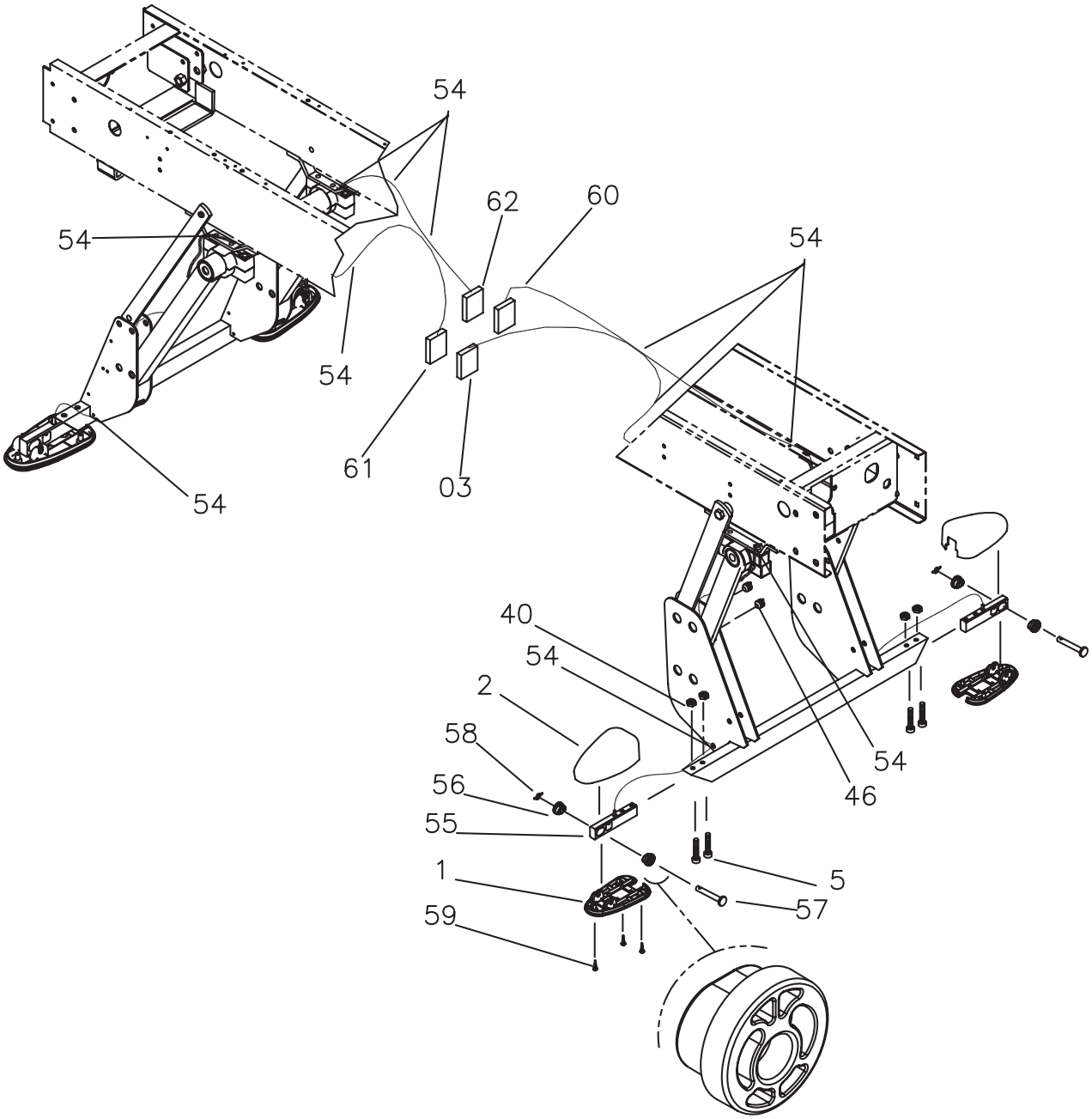
Return To Table of Contents

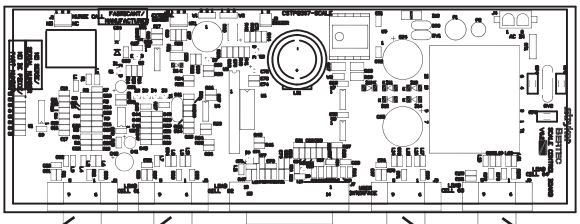
Hi-Lo Mechanism w/Bed Exit - OL140122G



Return To Table of Contents

Hi-Lo Mechanism w/Bed Exit - OL140122G





J5 Load Cell (Head Right)

J6 Load Cell (Foot Right)

J9 Load Cell (Head Left)

J8 Load Cell (Foot Left)

Return To Table of Contents

Hi-Lo Mechanism w/Bed Exit - OL140122

Item	Part No	Description	Qty
1	QP14-1329-07	S.A. Leg for Bed Exit option	4
2	QP14-1308	Leg cover	4
3	QE71-0673-F	Head left load cell position sticker	1
4	VV83A9E12	Tapping screw pan Phillips	8
5	VV10A1O44	Hex socket cap bolt	8
6	14-1295G	S.A. Bed Exit parallel leg	2
7	VB15A1O48	Hex bolt	4
8	VE30A1P	Nylon hex locknut	11
9	VB15A1P40	Hex bolt	4
10	14-0765P	Pivoting lever stabilizer	4
11	VB15A1P44	Hex bolt	4
12	VW10A12	Washer	8
13	VW10C122802	Nylon washer	8
14	QRE18130	Extension spring	2
15	14-1150P	S.A. Elevation lever	2
16	QDF17-0020	Shoulder spacer	16
17	VW60C201320	Nylon spacer	4
18	QPN-18-0055	Moulded Bearing	8
19	17-0251Z	Reinforcement plate	4
20	VB15A1O28	Hex bolt	8
21	VB15A1P50	Hex bolt	2
22	14-1200P	S.A. Harness	2
23	VB15A1P32-S	Hex bolt	4
24	QP13-0676-01	Left Stub Acme nut	2
25	14403Z	Spacer	4
26	QPN-13-0159	Nylon bushing	2
27	14-1173Z	Hi-Lo mechanism screw (head)	1
28	QPNC0607	Nylon shoulder washer	8
29	VG40B0240	Split pin	4
30	QPC-18145	Supple coupling	2
31	VG50A0644	Clevis pin	4
32	493G	Bearing plate	4
33	QBAS204012	Bearing	2
34	VG10B0732	Spring pin	4
35	VW10B163201	Spacing washer	2
36	14-0952	Spring adjustment screw	1
37	14-1277Z	Elevation mechanism screw (foot)	1
38	14-1299G	Leg cover	2
39	VB15A1060	Hex bolt	1
40	VE30A10	Nylon hex	33
41	VG10B0630	Spring pin	3
42	VW10C122002	Nylon washer	2
43	VV11A1O36	Flat head hex socket cap screw	4
44	M0019	Petro Canada OG2 grease	.15 kg
45	M0008	Threadlocker (blue)	.32 ml
46	QDF5096	Flat tie holder	8
48	14-1153G	Plain bearing	2
49	VW10A10	Flat washer	8
50	QPA13-0674	Nut bracket	2

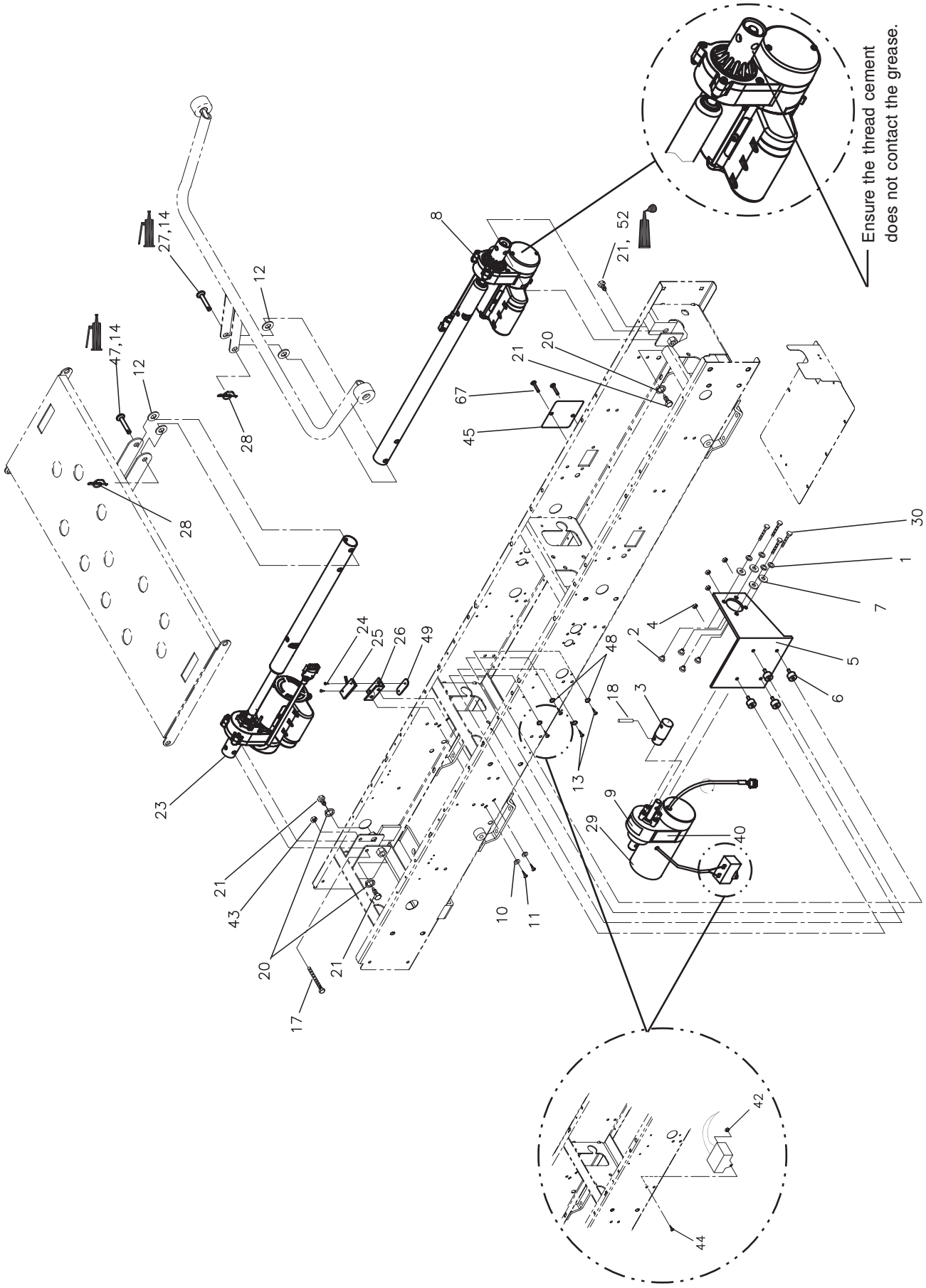
Return To Table of Contents

Hi-Lo Mechanism w/Bed Exit - OL140122

Item	Part No	Description	Qty
51	QPPF1512	Dia. 9/16” tubing cap	4
52	VW60C161214	Nylon spacer	2
53	VB15A1O54	Hex Bolt	8
54	QDF9518	Nylon Ty-Rap black	6
55	QDF14-1367	Load cell w/flexible cable - lg	4
56	QP20-0037-00	Elastomer sleeve	8
57	VG50B1250	Clevis pin	4
58	QDF7878	Rue ring cotter	4
59	VV23A9G36	Round sq socket head tap screw	12
60	QE71-0674-F	Head right load cell position sticker	1
61	QE71-0675-F	Foot left load cell position sticker	1
62	QE71-0676-F	Foot right load cell position sticker	1

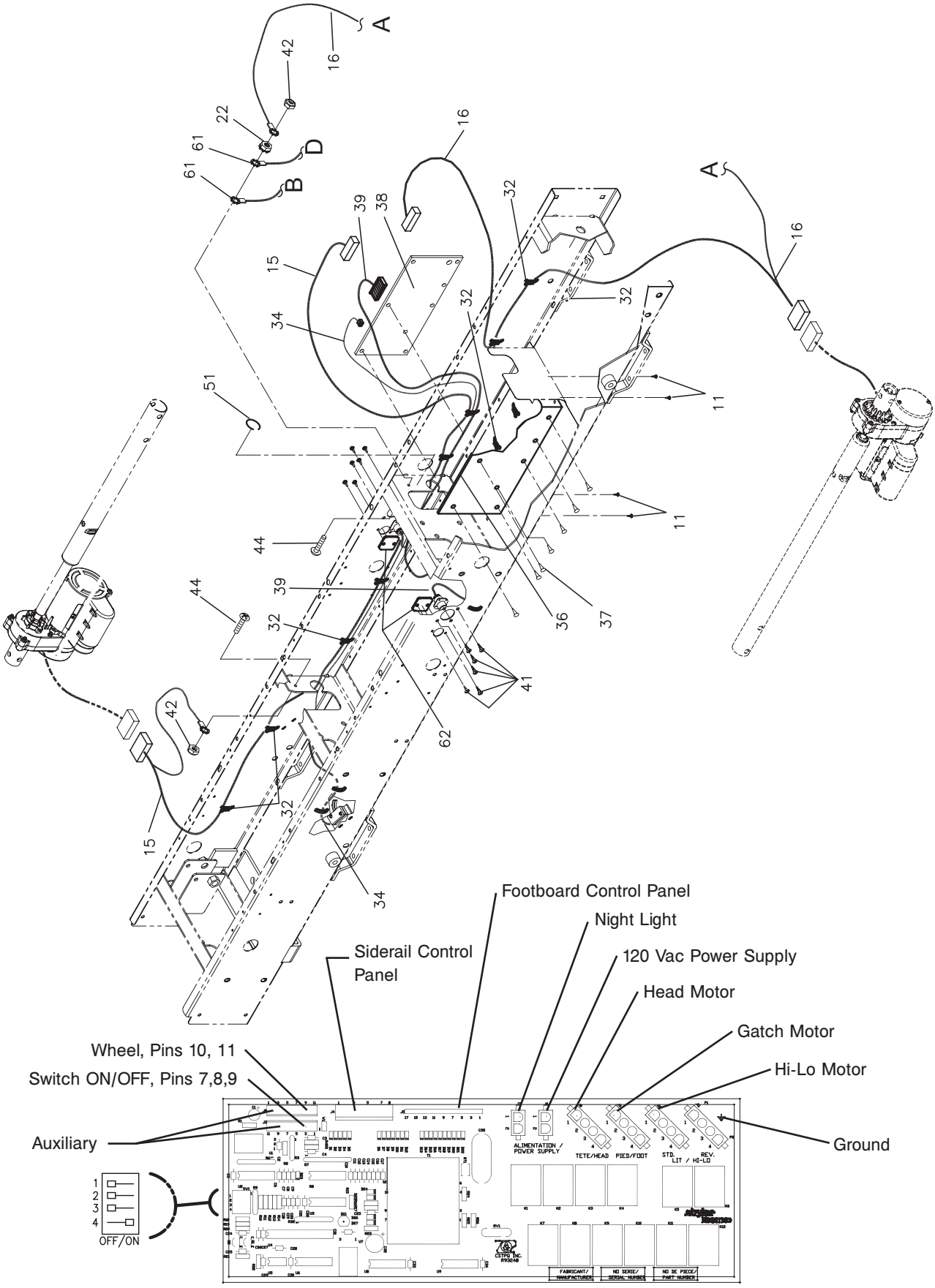
Return To Table of Contents

120V Electrical System w/o Bed Exit - OL140219G



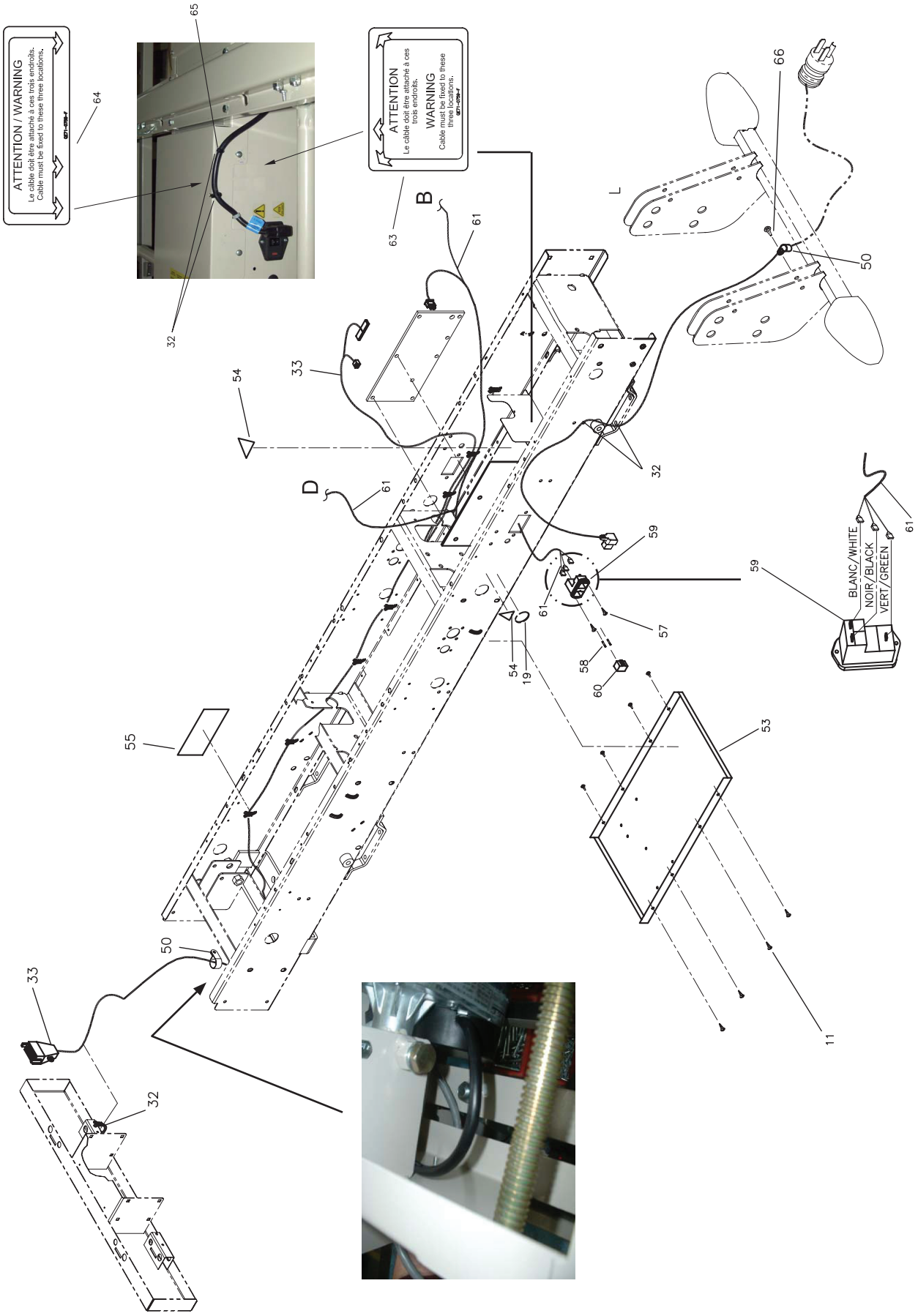
Return To Table of Contents

120V Electrical System w/o Bed Exit - OL140219G



Return To Table of Contents

120V Electrical System w/o Bed Exit - OL140219G



Return To Table of Contents

120V Electrical System w/o Bed Exit - OL140219G

Item	Part No	Description	Qty
1	VW20A08	Lock washer	4
2	QPNC0610	Nylon insulator	4
3	14-0880Z	Coupling rod motor-screw	1
4	VE30A1E	Nylon hex	4
5	14-1193G	Hi-Lo motor support	1
6	QPCD0905	Anti-vibration threaded sleeve	4
7	VW10C241002	Nylon washer	4
8	14-1472	Head actuator	1
9	QE18511-T	“Not grounded motor” label	1
10	VW10A06	Flat washer	2
11	VV83A9G16	Tapping screw pan Phillips	14
12	VW10C123602	Nylon washer	4
13	VV33A1E12	Machine screw Phillips	4
14	M0019	Petro Canada OG2 grease	.03kg
15	QDF14-1063	Long motor’s extension	1
16	QDF14-1064	Short motor’s extension	1
17	VB15A1N50	Hex. bolt	1
18	VG10B0622	Spring pin	1
19	QE71-0571	Sticker - 10A, 250V Fuses	1
20	VW20A16	Spring washer	3
21	17-0022Z	Actuator bolt	4
22	VE80A0G	“K-lok” locknut	3
23	14-1471	Actuator (foot)	1
24	VV87A9A20	Tap. screw truss Phillips socket	2
25	QDF9535	Micro switch with simulated rolled	1
26	14-1382G	Micro-switch support	1
27	VG50B1250	Clevis pin	1
28	QDF7878	Rue ring cotter	2
29	QDF14-1441	Hi-Lo motor	1
30	VB15A1N20	Hex Bolt	4
32	QDF9518	Nylon Ty-Rap black	22
33	QDF14-1370	Connecting wire	1
34	QDF14-1062	Connecting wire limit switch	1
36	14-1025G	PC board support	1
37	QDF8011	PC board support	8
38	QDF20-0180	Bed movement control board (601)	1
39	QDF14-1323	“Y” wire for Bed Exit option	1
40	QE18845-F	Motor identification	1
41	VV83A9E12	Tapping screw pan Phillips	12
42	VE30A0G	Nylon hex. locknut	3
43	VE30A1N	Nylon hex. locknut	1
44	VV33A0G24	Machine screw Phillips pan head	3
45	14-1448G	Hole cover	1
47	VG50B1248	Clevis Pin	1
48	VW20A06	Spring washer	4
49	17-0192	Nut for micro switch	1

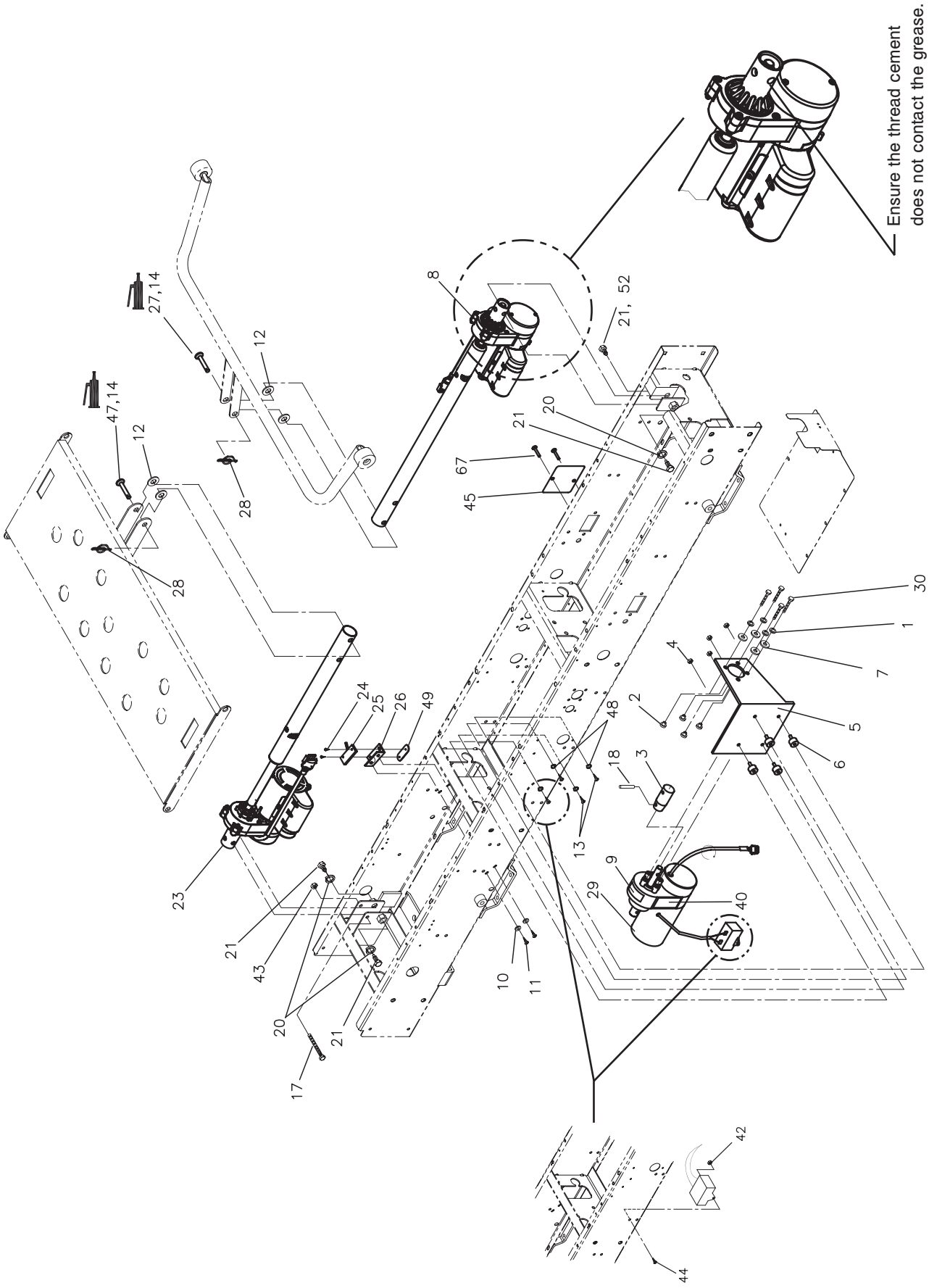
Return To Table of Contents

120V Electrical System w/o Bed Exit - OL140219G

Item	Part No	Description	Qty
50	QDF9520	Cable Clip	2
51	QE71-0572	Sticker - Ground	1
52	M0008	Threadlocker - (blue)	.16ml
53	14-1302G	Bottom plate for Bed Exit option	1
54	QE18545	“Refer to Manual” sticker	2
55	QE71-1270-T	FL14E3 CSA Sticker	1
57	VV41A1A20	Phillips countersunk screw	2
58	QDF8078	10A, 250V Long Fast Action Fuse	2
59	QDF9574	Power Connector	1
60	QDF9575	Fuse Drawer	1
61	QDF14-1320	120V Power cord	1
62	14-1439Z	Connector Cover Plate	1
63	QE71-0759-F	Sticker - Cable Position (Frame)	1
64	QE71-0758-F	Sticker - Cable position (Cover Top)	1
65	QDF5096	Flat tie holder	1
66	VR11H64	Pop rivet	1
67	VV87A9A12	Truss Head Phillips Screw	2

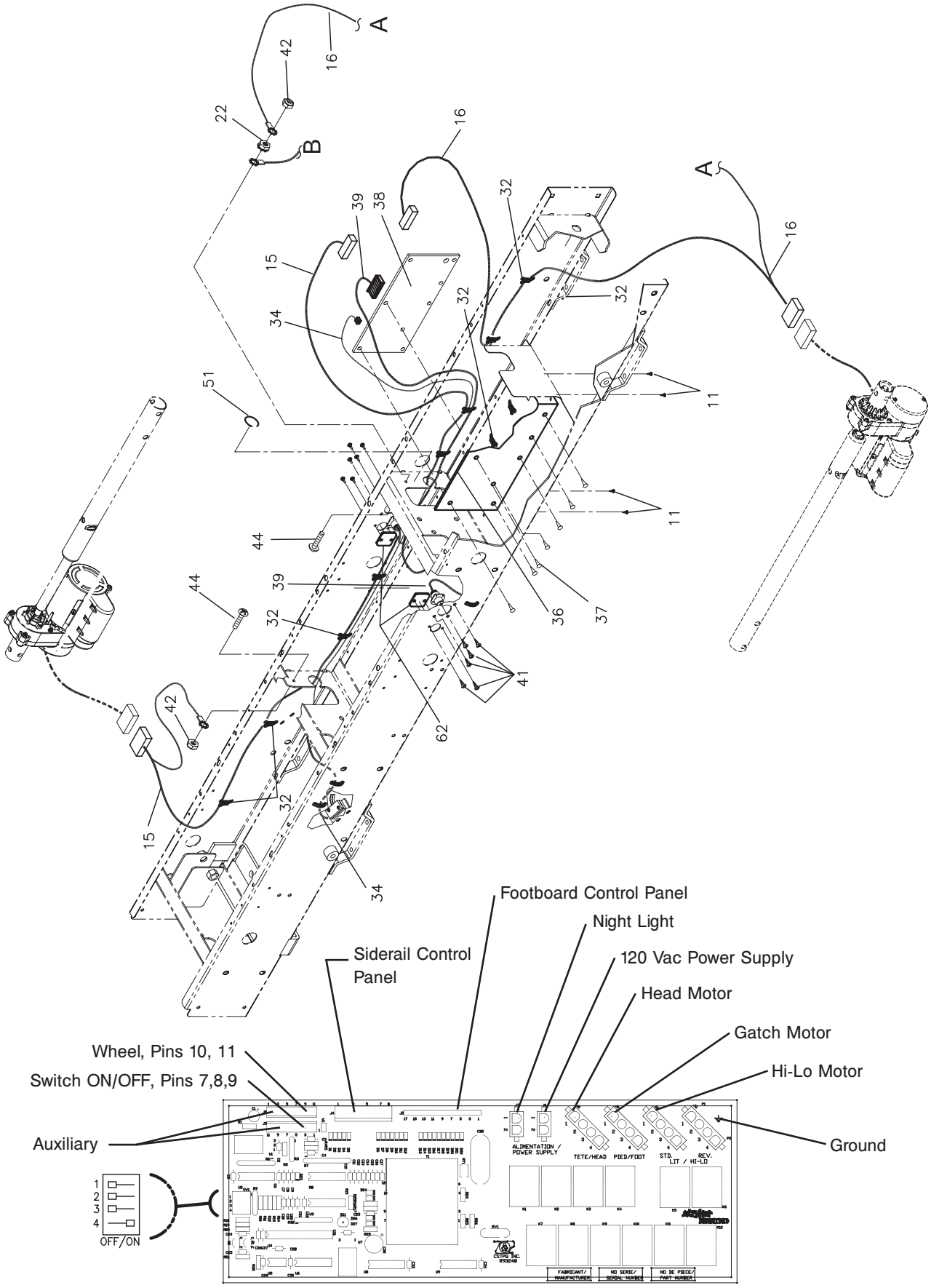
Return To Table of Contents

120V Electrical system w/Bed Exit - OL140220G



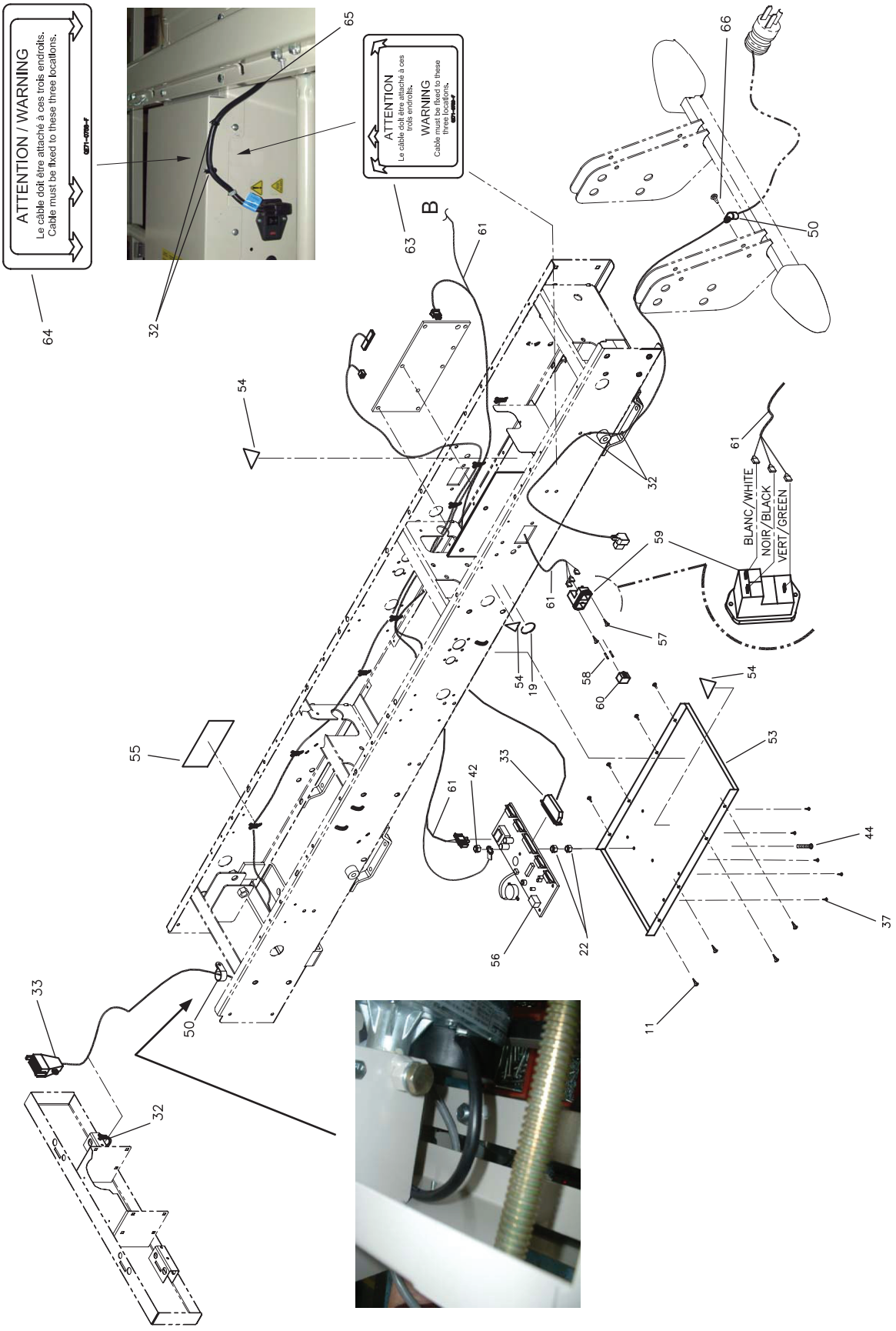
Return To Table of Contents

120V Electrical system w/Bed Exit - OL140220G



Return To Table of Contents

120V Electrical system w/Bed Exit - OL140220G



Return To Table of Contents

120V Electrical system w/Bed Exit - OL140220G

Item	Part No	Description	Qty
1	VW20A08	Lock Washer	4
2	QPNC0610	Nylon Insulator	4
3	14-0880Z	Coupling Rod Motor Screw	1
4	VE30A1E	Nylon Hex Locknut	4
5	14-1193G	Hi-Lo Motor Support	1
6	QPCD0905	Anti-vibration threaded sleeve	4
7	VW10C241002	Nylon washer	4
8	14-1472	Head actuator	1
9	QE18511-T	“Not grounded motor” label	1
10	VW10A06	Flat washer	2
11	VV83A9G16	Tapping screw pan Phillips	14
12	VW10C173602	Nylon washer	4
13	VV33A1E12	Machine screw Phillips pan head	4
14	M0019	Petro Canada OG2 grease	.03kg
15	QDF14-1063	Long motor extension	1
16	QDF14-1064	Short motor extension	1
17	VB15A1N50	Hex bolt	1
18	VG10B0622	Spring pin	3
19	QE71-0571	Sticker - 10A, 250V Fuses	1
20	VW20A16	Spring washer	3
21	17-0022Z	Actuator bolt	4
22	VE80A0G	“K-lok” locknut	1
23	14-1471	Actuator (foot)	1
24	VV87A9A20	Tap. screw truss Phillips socket	2
25	QDF9535	Micro switch with simulated rolled	1
26	14-1382G	Micro-switch support	1
27	VG50B1250	Clevis pin	1
28	QDF7878	Rue ring cotter	2
29	QDF14-1441	Hi-Lo motor	1
30	VB15A1N20	Hex Bolt	4
32	QDF9518	Nylon Ty-Rap black	22
33	QDF14-1318	Bed Exit connecting wire	1
34	QDF14-1062	Connecting wire limit switch	1
36	14-1025G	PC board support	1
37	QDF8011	PC board support	13
38	QDF20-0180	Bed movement control board (601)	1
39	QDF14-1323	“Y” wire for Bed Exit option	1
40	QE18845-F	Motor identification	3
41	VV83A9E12	Tapping screw pan Phillips	12
42	VE30A0G	Nylon hex. locknut	3
43	VE30A1N	Nylon hex. locknut	1
44	VV33A0G24	Machine screw Phillips pan head	3
45	14-1448G	Hole cover	1
47	VG50B1248	Clevis Pin	1
48	VW20A06	Spring washer	4
49	17-0192	Nut for micro switch	1
50	QDF9520	3/8” Dia. Cable Clip	2
51	QE71-0572	Sticker - Ground	1
52	M0008	Threadlocker (blue)	.16ml

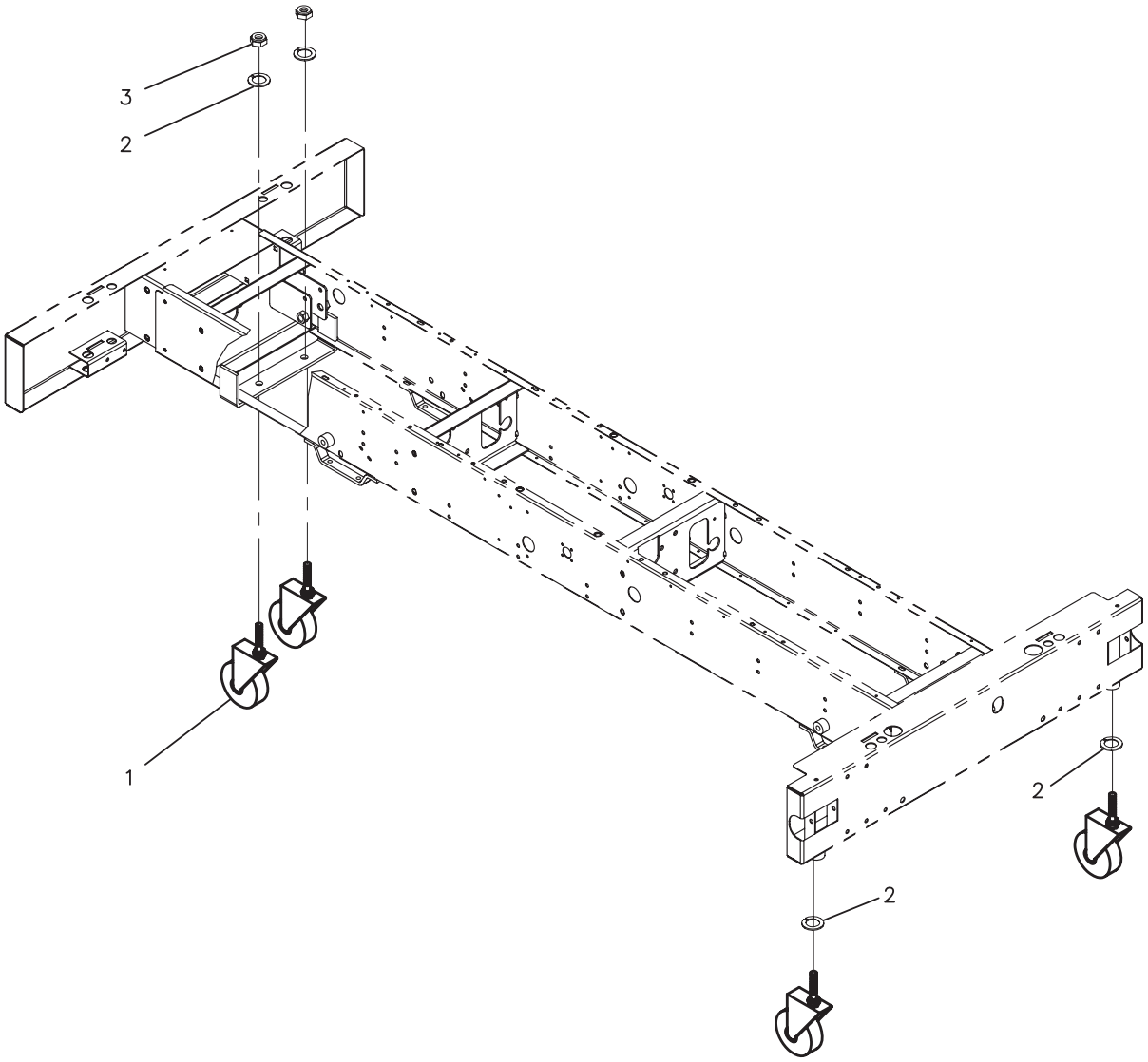
Return To Table of Contents

120V Electrical System W/Bed Exit - OL140220G

Item	Part No	Description	Qty
53	14-1302G	Bottom plate for Bed Exit option	1
54	QE18545	“Refer to Manual” sticker	3
55	QE71-1270-T	FL14E3 CSA Sticker	1
56	14-1350	S.A Scale PC Board	1
57	VV41A1A20	Phillips countersunk screw	2
58	QDF8078	10A, 250V Long Fast Action Fuse	2
59	QDF9574	Power Connector	1
60	QDF9575	Fuse Drawer	1
61	QDF14-1320	120V Power cord	1
62	14-1439Z	Connector cover plate	1
63	QE71-0759-F	Sticker - Cable Position (Frame)	1
64	QE71-0758-F	Sticker - Cable position (Cover Top)	1
65	QDF5096	Flat tie holder	1
66	VR11H64	Pop rivet	1
67	VV87A9A12	Truss Head Phillips Screw	2

Return To Table of Contents

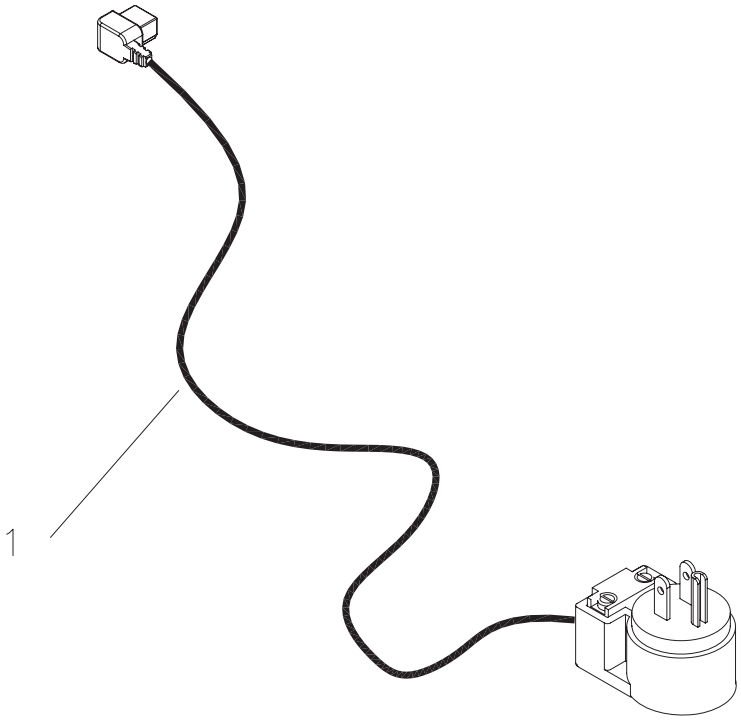
Three Inches Sturdy Casters - OL140126



Item	Part No	Description	Qty
1	Rf3CSW	3” sturdy casters	4
2	VW20A16	Spring washer	4
3	VE10A1R	Hex. nut 1/2-13 z.p.	2

Return To Table of Contents

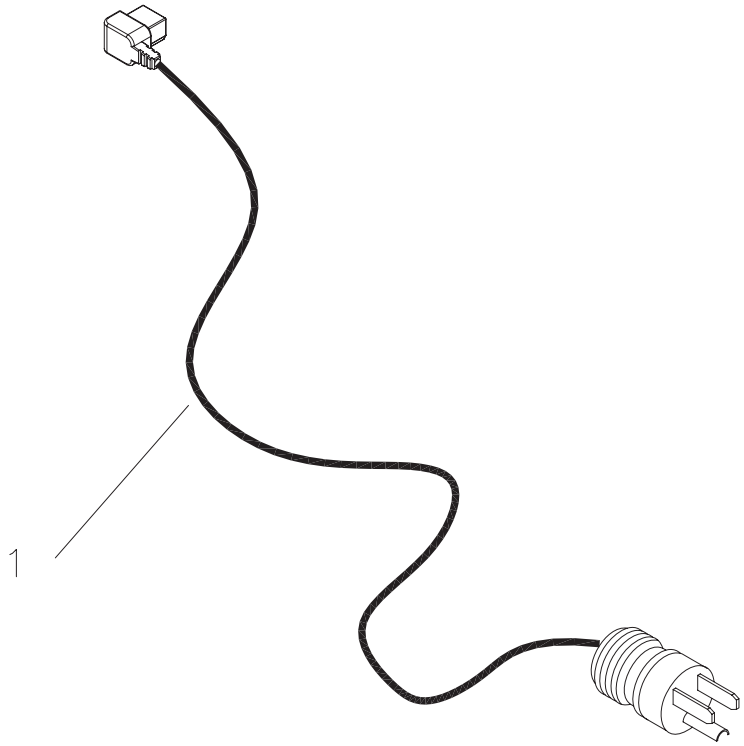
Molded NA Hospital Grade Plug with 120V Power Cord - OL140127



Item	Part No	Description	Qty
1	QDF14-1375	Hospital Grade Straight Plug	1

Return To Table of Contents

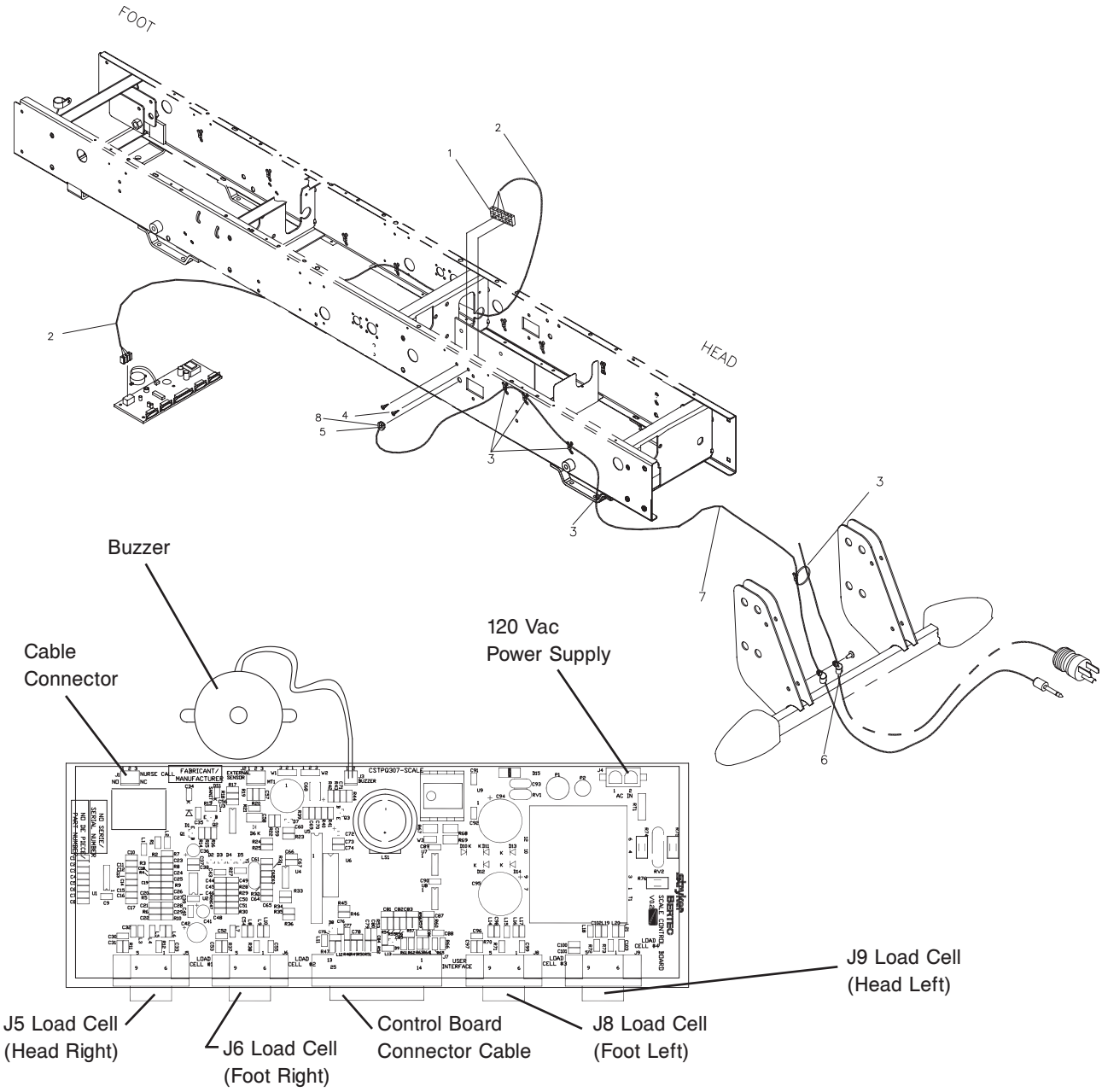
90˚ NA Hospital Grade Plug with 120 V Power Cord - OL140128



Item	Part No	Description	Qty
1	QDF14-1437	90˚ North American Plug	1

Return To Table of Contents

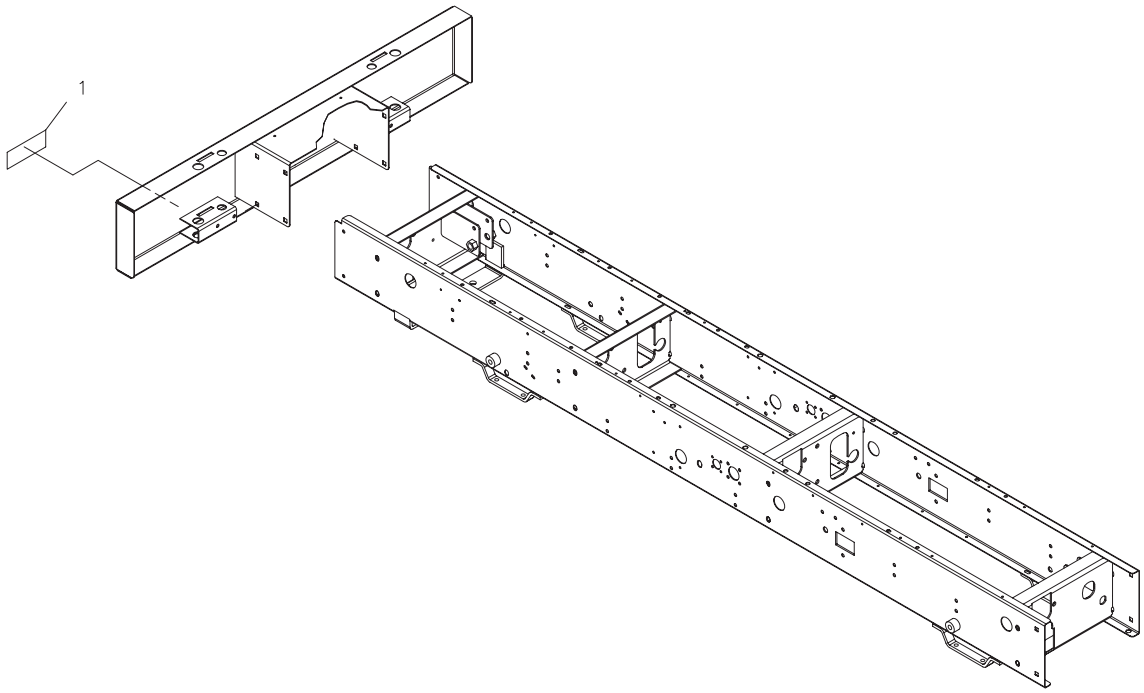
Nurse Call - OL140140



Item	Part No	Description	Qty
1	QDF9012	Terminal strip (6 x 2)	1
2	QDF14-1321	Connecting cable	1
3	QDF9518	Nylon Ty-Rap black (0.143 X 8”)	2
4	VV83A9E12	Tapping screw pan Phillips	2
5	QDF9541	Strain Relief SR 6P3-4	1
6	QDF9520	3/8” Dia. Cable Clip	1
7	QDF14-1345	Long mono connecting cable	1
8	QDF9506	Insulating washer	1

Return To Table of Contents

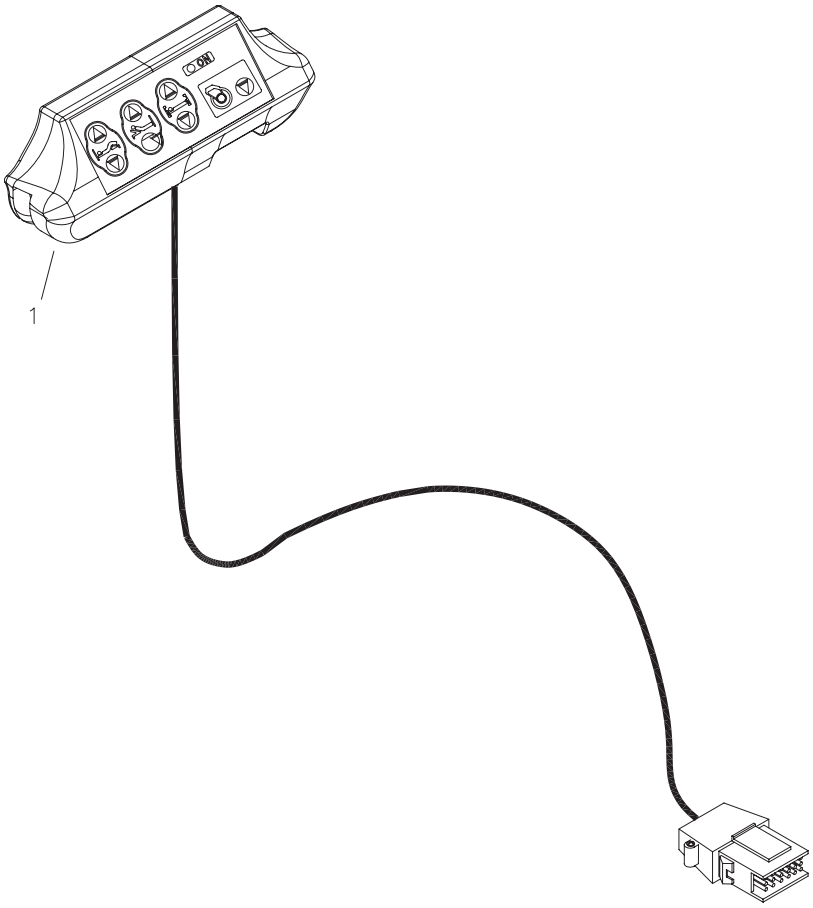
Stryker Sticker - OL140149



Item	Part No	Description	Qty
1	QE71-0346	Sticker - STRYKER	1

Return To Table of Contents

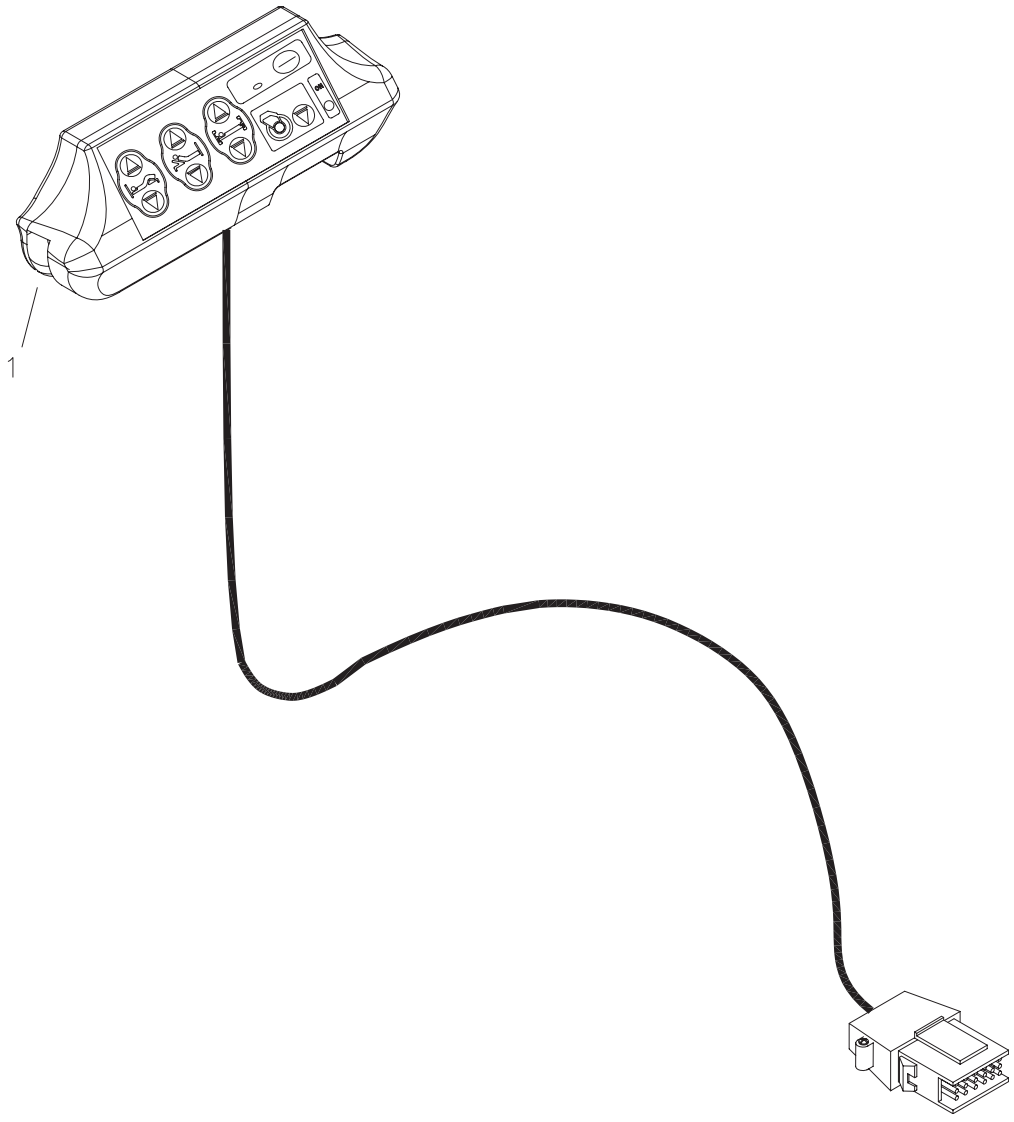
Foot End Control Panel w/o Bed Exit - OP140132



Item	Part No	Description	Qty
1	14-1234	Control panel assembly	1

Return To Table of Contents

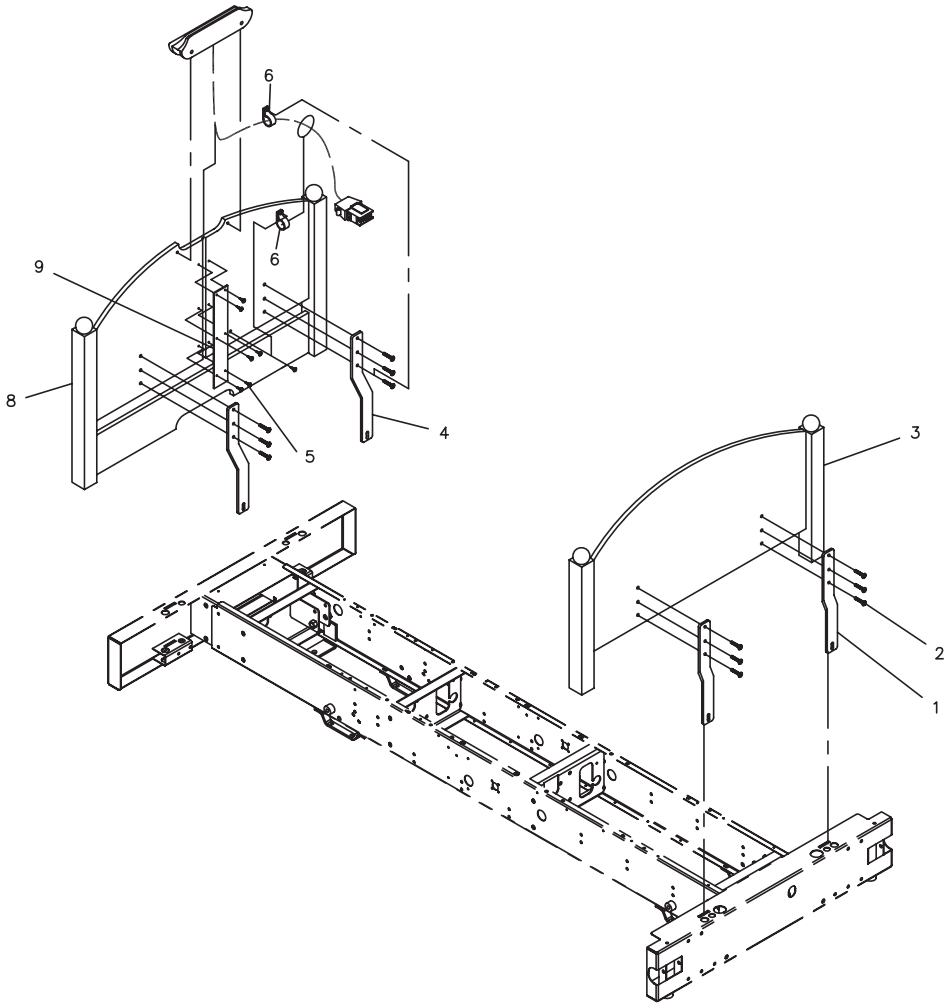
Foot End Control Panel W/Bed Exit - OP140133



Item	Part No	Description	Qty
1	14-1336	Foot End Control Panel Assembly w/Bed Exit	1

Return To Table of Contents

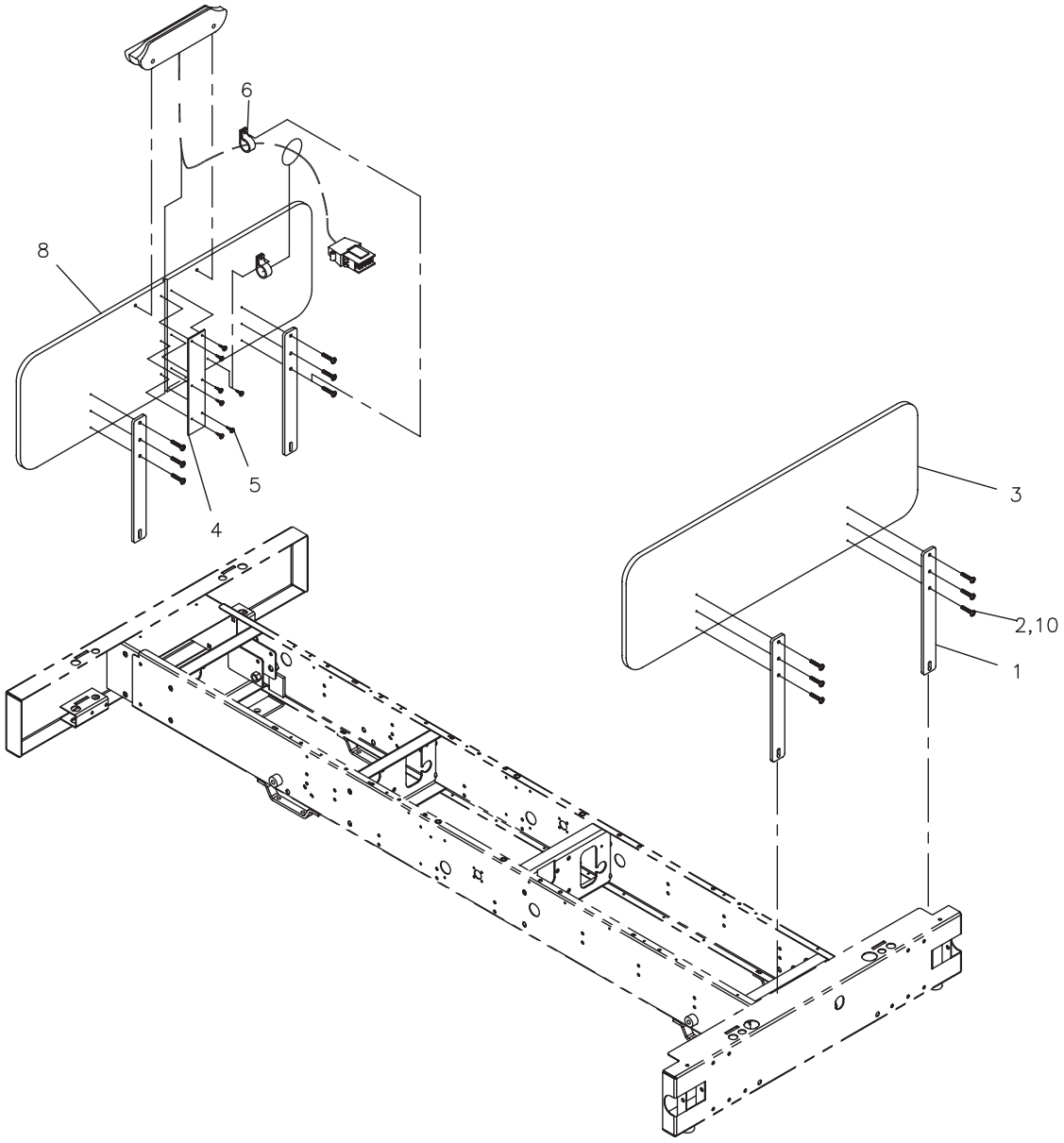
Designer Boards - OP140134-G



Item	Part No	Description	Qty
1	14-0811G	Designer head board anchor	2
2	VV23A9G24	Tapping screw pan Phillips	12
3	XB14-0304	Designer head board	1
4	14-0810G	Designer foot board anchor	2
5	VV23A9E16	Tapping screw	7
6	QDF9520	3/8” Dia. Cable Clip	2
8	XB14-1355	Foot Designer Board	1
9	14-0959G	Wire cover plate (standard board)	1

Return To Table of Contents

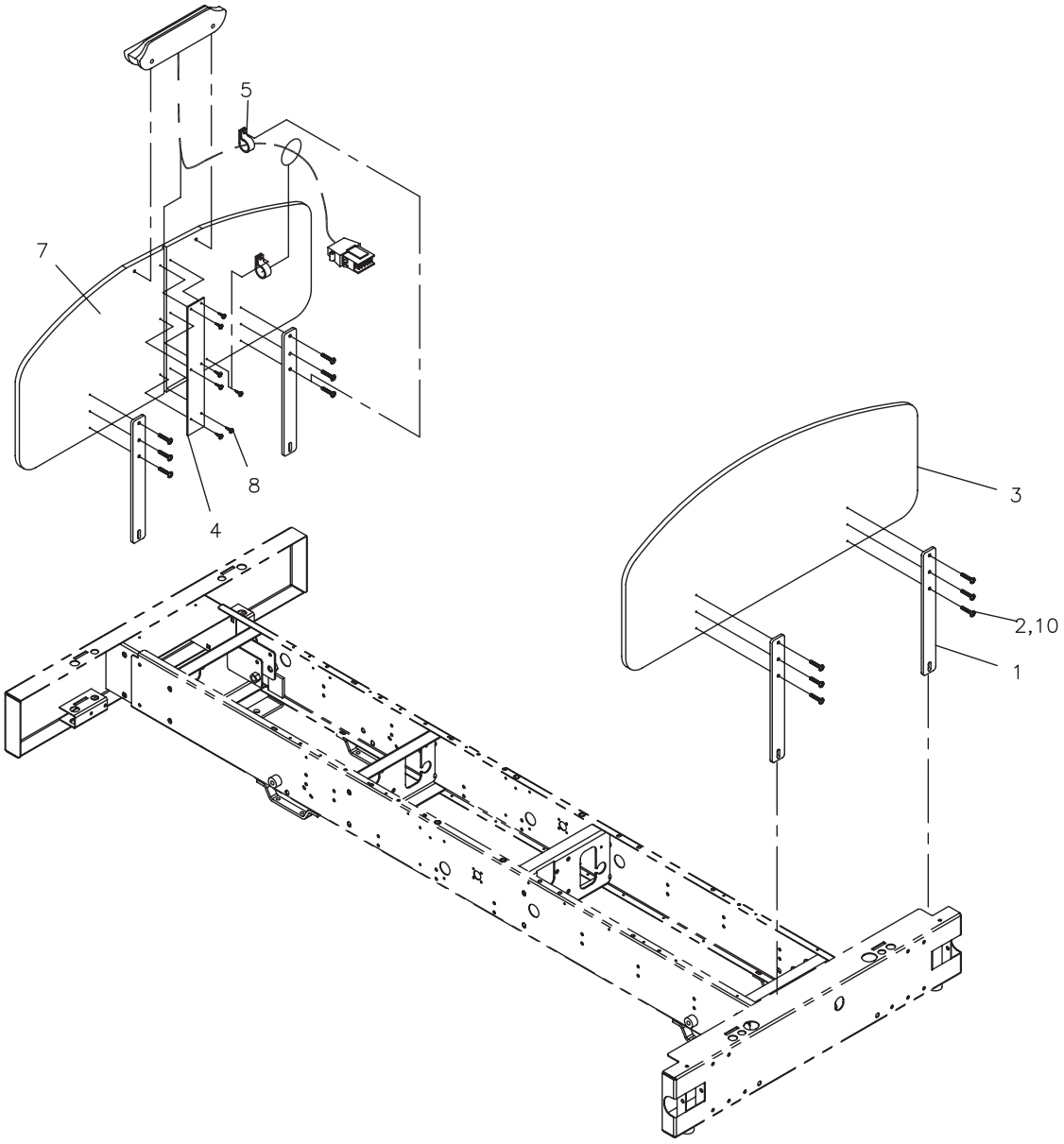
12” Melamine Boards - OP140208-XXX



Item	Part No	Description	Qty
1	14-0113G	Fastening plate	4
2	VV23A9G24	Tapping screw pan Phillips	12
3	14-1454XX	12” Head Melamine Board	1
4	14-0959G	Wire cover plate (standard board)	1
5	VV23A9E16	Tapping screw	7
6	QDF9520	3/8” Dia. Cable Clip	2
8	14-1455XX	12” Foot Melamine Board	1
10	M0008	Threadlocker (blue)	.015 mL

Return To Table of Contents

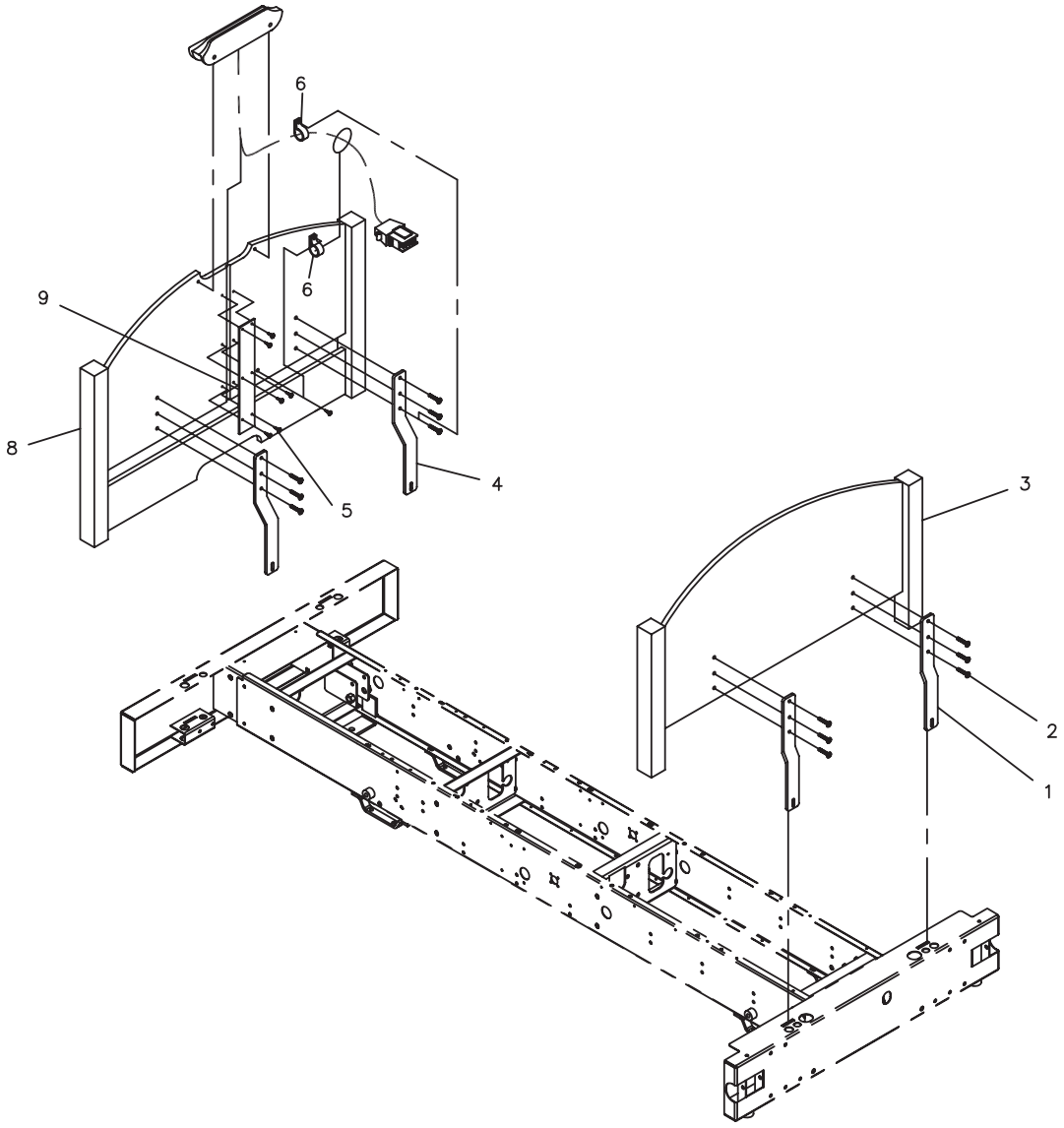
15” Half-Moon Melamine Boards - OP140206-XXX



Item	Part No	Description	Qty
1	14-0113G	Fastening plate	4
2	VV23A9G24	Tapping screw pan Phillips	12
3	14-1452XX	15” Head Half-Moon Melamine Board	1
4	14-1266G	Wire cover plate	1
5	QDF9520	3/8” Dia. Cable Clip	2
7	14-1453XX	15” Foot Half-Moon Melamine Board	1
8	VV23A9E16	Tapping screw	7
10	M0008	Threadlocker (blue)	.015 mL

Return To Table of Contents

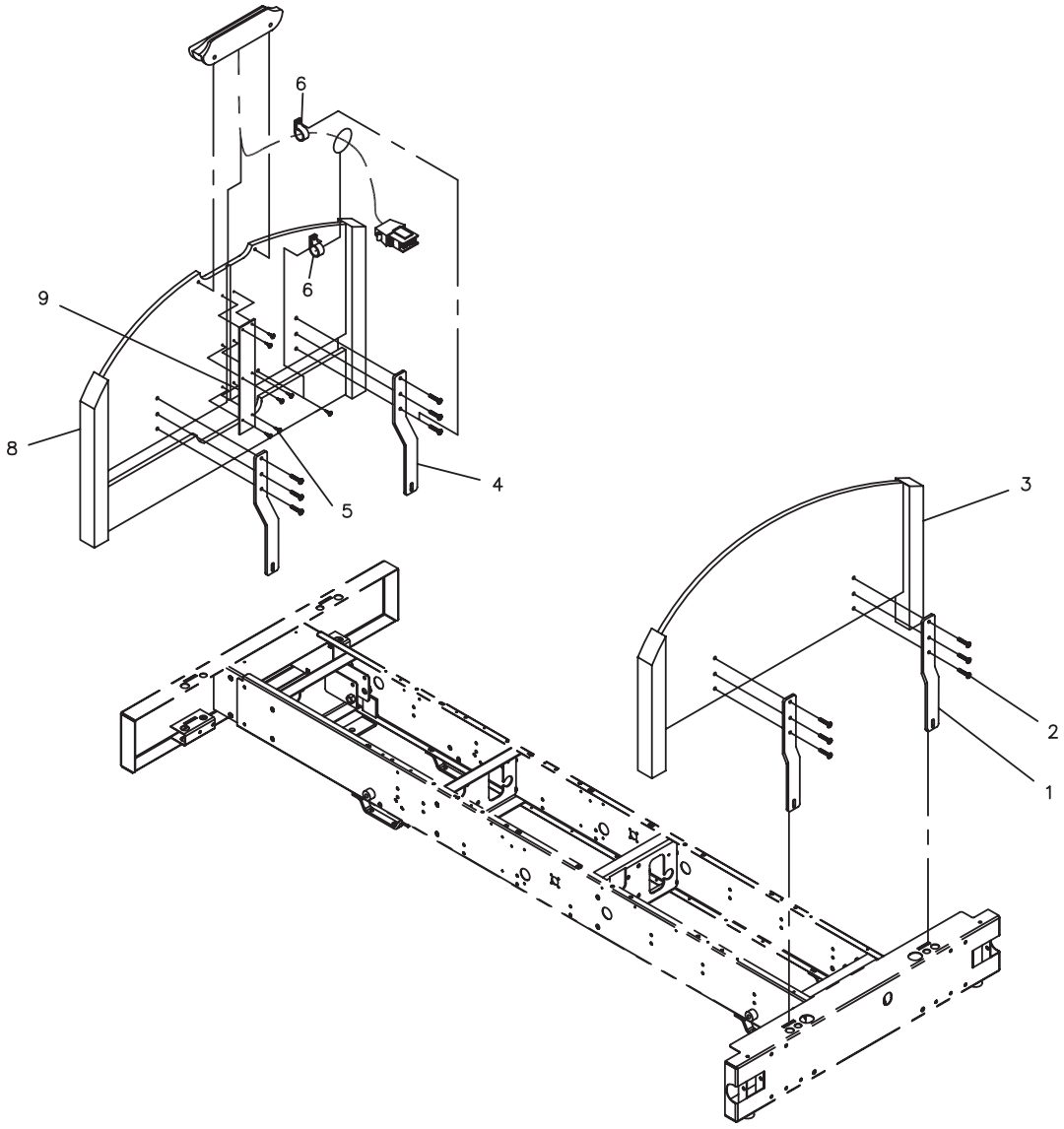
Designer Boards without Knobs - OP140137-XXX



Item	Part No	Description	Qty
1	14-0811G	Designer head board anchor	2
2	VV23A9G24	Tapping screw pan Phillips	12
3	XB90-0470XX	Head Designer Board w/o Knobs	1
4	14-0810G	Designer foot board anchor	2
5	VV23A9E16	Tapping screw	7
6	QDF9520	3/8” Dia. Cable Clip	2
8	XB14-1357	Foot Designer Board w/o Knobs	1
9	14-0959G	Wire cover plate (standard board)	1

Return To Table of Contents

Designer Boards for Emergency Crank - OP140138-XXX



Item	Part No	Description	Qty
1	90-0655G	Designer head board anchor	2
2	VV23A9G24	Tapping screw pan Phillips	12
3	XB90-0603XX	Head Designer Board w/o Knobs	1
4	14-0810G	Designer foot board anchor	1
5	VV23A9E16	Tapping screw	7
6	QDF9520	3/8” Dia. Cable Clip	2
8	XB14-1359XX	Foot Designer Board w/o Knobs	1
9	14-0959G	Wire cover plate (standard board)	1

Return To Table of Contents

LIMITED WARRANTY

Stryker Medical Division, a division of Stryker Corporation, warrants to the original purchaser the MedSurg Bed, Model FL14E3 to be free from defects in material and workmanship for a period of One (1) years after date of delivery. Stryker's obligation under this warranty is expressly limited to supplying replacement parts and labor for, or replacing, at its option, any product which is, in the sole discretion of Stryker, found to be defective. If requested by Stryker, products or parts for which a warranty claim is made shall be returned prepaid to the factory. Any improper use or any alteration or repair by others in such manner as in Stryker's judgment affects the product materially and adversely shall void this warranty. Any repair of Stryker products using parts not provided or authorized by Stryker shall void this warranty. No employee or representative of Stryker is authorized to change this warranty in any way.

Stryker Medical Bed products are designed for a 15 year expected service life under normal use, conditions, and with appropriate periodic maintenance as described in the maintenance manual for each device. Stryker warrants to the original purchaser that the welds on its Bed products will be free from structural defects for the expected 15 year life of the Bed product as long as the original purchaser owns the product.

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 here under 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 USA at 1-800-327-0770, Canada 1-888-233-6888.

SERVICE CONTRACT COVERAGE

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.

A Service Contract helps to:

- Ensure equipment reliability
- Stabilize maintenance budgets
- Diminish downtime
- Establish documentation for JCAHO
- Increase product life
- Enhance trade-in value
- Address risk management and safety

Return To Table of Contents

SERVICE CONTRACT PROGRAMS

Stryker offers the following service contract programs:

Service Agreement Options *	Premium	Complete	Standard
Annually scheduled preventative maintenance	X		X
All parts	X	X	
All labor and travel	X	X	
Unlimited emergency service calls	X	X	
Priority one contact: two hour phone response	X	X	
Most repairs completed within 3 days	X	X	
JCAHO documentation	X	X	X
On-site record of PM & emergency service	X		X
Factory-trained Stryker service technician	X	X	X
Stryker authorized parts used	X	X	X
Service during regular business hours (8–5)	X	X	X

* Does not include maintenance due to abuse or for any disposable items. Stryker reserves the right to change options without notice.

Stryker Medical also offers personalized service contracts.
Pricing is determined by age, location, model and condition of product.

For more information on our service contracts,
please call your local representative.

RETURN AUTHORIZATION

Merchandise cannot be returned without approval from the Stryker Customer Service Department. An authorization number will be provided which must be printed on the returned merchandise. Stryker reserves the right to charge shipping and restocking fees on returned items. **Special, modified, or discontinued, items not subject to return.**

DAMAGED MERCHANDISE

ICC Regulations require that claims for damaged merchandise must be made with the carrier within fifteen (15) days of receipt of merchandise. **Do not accept damaged shipments unless such damage is noted on the delivery receipt at the time of receipt.** Upon prompt notification, Stryker will file a freight claim with the appropriate carrier for damages incurred. Claim will be limited in amount to the actual replacement cost. In the event that this information is not received by Stryker within the fifteen (15) day period following the delivery of the merchandise, or the damage was not noted on the delivery receipt at the time of receipt, the customer will be responsible for payment of the original invoice in full. Claims for any short shipment must be made within thirty (30) days of invoice.

INTERNATIONAL WARRANTY CLAUSE

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

Return To Table of Contents

MEDSURG BED, MODEL FL14E3

Guidance and Manufacturer's declaration - Electromagnetic Immunity			
The MedSurg Bed, Model FL14E3 is suitable for use in the electromagnetic environment specified below. The customer or the user of the MedSurg Bed, Model FL14E3 should assure that it is used in such an environment.			
Immunity Test	**IEC 60601 Test Level**	**Compliance Level**	**Electromagnetic Environment Guidance**
Electrostatic Discharge (ESD) IEC 61000-4-2	±6 kV contact ±8 kV air	±6 kV contact ±8 kV air	Floors should be wood, concrete, or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30%.
Electrostatic fast Transient/ burst IEC 61000-4-4	±2 kV for power supply lines ±1 kV for input/output lines	±2 kV for power supply lines ±1 kV for input/output lines	Main power quality should be that of a typical commercial or hospital environment.
Surge IEC 61000-4-5	±8 kV differential mode ±2 kV common mode	±8 kV differential mode ±2 kV common mode	Main power quality is that of a typical commercial and/or hospital environment.
Voltage dips, voltage variations and short interruptions on power supply input lines IEC 61000-4-11	<5%Ut (95% dip in Ut) for 0.5 cycle 40%Ut (60% dip in Ut) for 5 cycles 70%Ut (30% dip in Ut) for 25 cycles. <5% Ut (>95% dip in Ut) for 5 sec.	<5%Ut (95% dip in Ut) for 0.5 cycle 40%Ut (60% dip in Ut) for 5 cycles 70%Ut (30% dip in Ut) for 25 cycles. <5% Ut (>95% dip in Ut) for 5 sec.	Main power quality should be that of a typical commercial and/or hospital environment. If the user of the GoBed® II MedSurg Bed, Model FL28C requires continued operation during power main interruptions, it is recommended that the device be powered from an uninterrupted power supply or a battery.
Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	3 A/m	3 A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial and/or hospital environment.
Note: U_T is the a.c. mains voltage prior to applications of the test level.			

Return To Table of Contents

MEDSURG BED, MODEL FL14E3 (CONTINUED)

Recommended separation distances between portable and mobile RF communications equipment and the MedSurg Bed, Model FL14E3.

The MedSurg Bed, Model FL14E3 is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the MedSurg Bed, Model FL14E3 can help prevent electromagnetic interferences by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the MedSurg Bed, Model FL14E3 as recommended below, according to the maximum output power of the communications equipment.

Rated maximum output power of transmitter W	**Separation distance according to frequency of transmitter m**		
	150 kHz to 80 MHz $d=1.2\sqrt{P}$	80 MHz to 800 MHz $d=1.2\sqrt{P}$	800 MHz to 2.5 GHz $d=2.3\sqrt{P}$
0.01	1.12	0.12	0.23
0.1	0.38	0.38	0.73
1	1.2	1.2	2.3
10	3.8	3.8	7.3
100	12	12	23

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

Note 1
At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies.

Note 2
These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

Return To Table of Contents

MEDSURG BED, MODEL FL14E3 (CONTINUED)

The MedSurg Bed, Model FL14E3 is suited for use in the electromagnetic environment specified below. The customer or the user of the MedSurg Bed, Model FL14E3 should assure that it is used in such an environment.

Immunity Test	IEC 60601 Test Level	Compliance Level	Electromagnetic Environment - Guidance
Conducted RF IEC 61000-4-6	3 Vrms 150 kHz to 80 MHz	3 Vrms	Portable and mobile RF communications equipment should be used no closer to any part of the MedSurg Bed, Model FL14E3, including cables, than the recommended separation distance calculated from the equation appropriate for the frequency of the transmitter. Recommended Separation Distance $d=1.2\sqrt{P}$
Radiated RF IEC 61000-4-3	3 V/m 80 MHz to 2.5 GHz	3 V/m	$d=1.2\sqrt{P}$ $d=2.3\sqrt{P}$ 800 MHz to 2.5 GHz where *P* is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and *d* is the recommended separation distance in meters (m). Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey,[a] should be less than the compliance level in each frequency range.[b] Interference may occur in the vicinity of equipment marked with the following symbol: 

Note 1
At 80 MHz and 800 MHz, the higher frequency range applies.
Note 2
These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

[a]Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast, and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the MedSurg Bed, Model FL14E3 is used exceeds the applicable RF compliance level above, the MedSurg Bed, Model FL14E3 should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating the MedSurg Bed, Model FL14E3.
[b]Over the frequency range 150 kHz to 80 MHz, field strengths are less than 3 V/m.

Return To Table of Contents

MEDSURG BED, MODEL FL14E3 (CONTINUED)

Guidance and Manufacturer's declaration - Electromagnetic Emissions		
The MedSurg Bed, Model FL14E3 is intended for use in an electromagnetic environment specified below. The customer or the user of the MedSurg Bed, Model FL14E3 should assure that it is used in such an environment.		
Emissions Test	**Compliance**	**Electromagnetic Environment**
RF Emissions CISPR 11	Group 1	The MedSurg Bed, Model FL14E3 uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.
RF Emissions CISPR 11	Class A	The MedSurg Bed, Model FL14E3 is suitable for use in all establishments other than domestic and those directly connected to the public low voltage power supply network that supplies buildings used for domestic purposes.
Harmonic Emissions IEC 61000-3-2	Class A	
Voltage Fluctuations Flicker Emissions IEC 61000-3-3	Complies	

Return To Table of Contents

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