Electrical MedSurg Bed Model FL23E

STRUMENT Maintenance Manual



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

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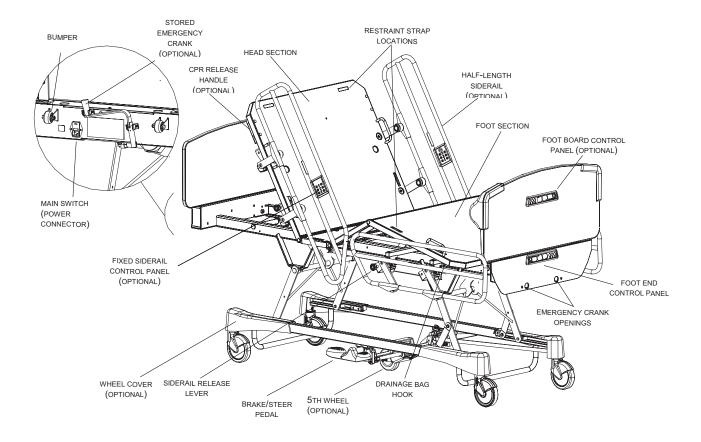
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Introduction

INTENDED USE

This manual is designed to assist you with the maintenance of Stryker Model FL23E Electrical MedSurg Bed. Carefully read this manual thoroughly before using the equipment or beginning maintenance on it. To ensure safe operation of this equipment, it is recommended that methods and procedures be established for educating and training staff on the safe operation of this bed.

PRODUCT ILLUSTRATION



Introduction

SPECIFICATIONS

	Safe We	orking Load				
	1	e patient,	ng Load indicates the sum mattress, and accessory	500 lbs	227 kg	
Overall			h Siderails Raised	90.4" x 41.3"	2296 x 1049 mm	
Length/			n Siderails Raised	90.4" x 39.9"	2296 x 1013 mm	
	with Boa			390 lbs	177 kg	
	Sleep Su			35" x 78"	89 x 198 cm	
Recomr Mattres	mended s Size	Length/Wi	dth	35" x 78" or 80"	89 x 198 cm or 203 cm	
Maximum Thickness		BNQ Standard	Bed with diameter 12.7 cm (5") casters	6"	15.2 cm	
			Bed with diameter 15.2 cm (6") casters	5"	12.7 cm	
		Non-BNQ Standard		5"	12.7 cm	
Minimur Maximu	-	With diameter 12.7 cm (5") casters		11.75" to 29"	29.8 to 73.7 cm	
Bed He	ight	With diameter 15.2 cm (6") casters		12.75" to 30"	32.4 to 76.2 cm	
Fowler	Angle			0° to 62°		
Knee G	atch	With Auto	Contour	0° to 25°		
Angle		Without Au	uto Contour	0° to 32°		
Trendel	enburg/R	leverse Trer	ndelenburg	+17° to -17°		
Environmental Conditions Transport and Storage Ambient Temperature Relative Humidity Atmospheric Pressure		-40° to 158°F 10 to 100% 500 to 1060 hPa	-40° to 70°C			
Operating		50° to 104°F 5 to 95% without condensation 700 to 1060 hPa	10° to 40°C			
Electric Require] 1		DV Optional Auxiliary Outlet) s /, 6.3A Slow Blow Fuses /, 6.3A Slow Blow Fuses			

Stryker reserves the right to change specifications without notice.

Specifications listed are approximate and may vary slightly from unit to unit or by power supply fluctuations.

Note

The Safe Working Load for the BNQ beds is of 390 lbs (176 kg).

^{*} This device has a 10% duty cycle.

Introduction

WARNING / CAUTION / NOTE DEFINITION

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



WARNING

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



CAUTION

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

Note

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

Symbols



Warning, Refer to Accompanying Documentation

~ Alternating Current



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

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

IPX4 Protection from liquid splash



Dangerous Voltage Symbol



Protective Earth Terminal



Potential Equalization Symbol



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



Fuse rating for bed with 100V° and 120V° electric systems.

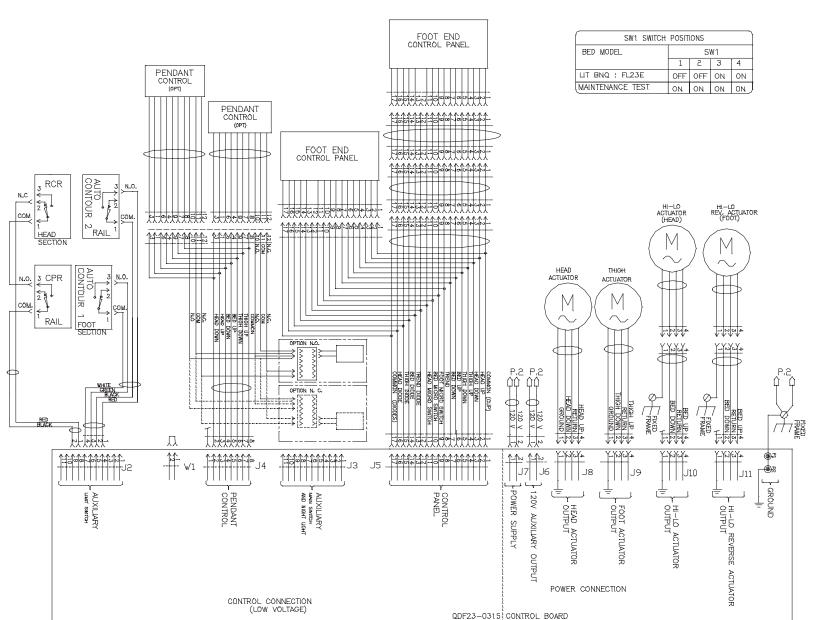


Fuse rating for bed with 200V, 220V and 240V electric systems.



In accordance with **European Directive 2002/96/EC** on Waste Electrical and Electronic Equipment **(WEEE)**, 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.

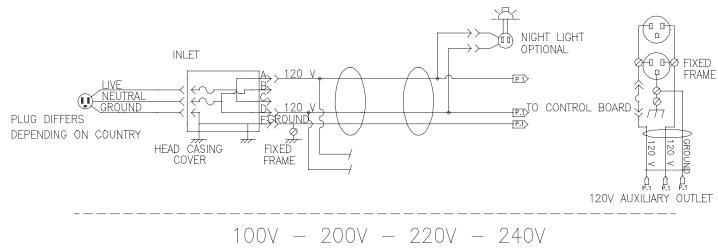
CONNECTION DIAGRAM

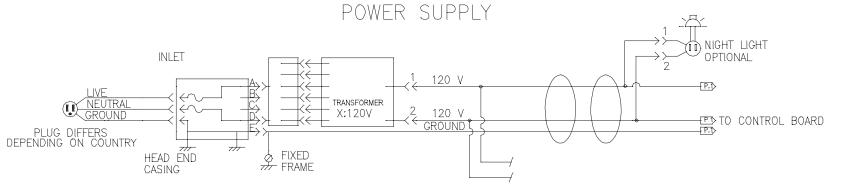


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CONNECTION DIAGRAM (CONTINUED)

120V POWER SUPPLY





Preventative Maintenance

Use only	replacement parts provided by Stryker.			
ANNUAL	CHECKLIST			
	All fasteners secure.			
	Inspect for excessive wear the oil-impregnated bronze shoulder spacers found at the bed hinge points			
	Replace as needed. Do not lubricate these spacers.			
	On both sides of the bed, depress fully down the side of the pedal identified with a red sticker and ensur			
	that the brakes are applied and the bed immobilized. Toggle the pedal to neutral and ensure the brake			
	are released.			
	On both sides of the bed, depress fully down the side of the pedal identified with a green sticker and ensur that the steer mode (5 th wheel (optional) or bed wheel) is engaged. Toggle the pedal to neutral and ensur			
	that the steer mode (5° wheel (optional) or bed wheel) is engaged. Toggle the pedal to heutral and ensure that the steer mode disengages.			
	Siderails move smoothly and latch properly in high position.			
	Ensure that each control of the inner and outer head siderail control panels (optional) and those of the			
	removable pendant control (optional) are working properly.			
	All controls of the foot end panel and those of the foot board panel (optional) working properly, includin			
	Trendelenburg and lockout LED's.			
	Fowler and Knee Gatch (if raised) flatten and the Fowler control motor resets itself automatically when th			
	two CPR handles (optional) are pulled until Fowler is flattened. Wait about 30 seconds, the time for th			
	Fowler motor to reset itself, and then raise the Fowler to ensure that the resetting of the motor has indee			
	occurred.			
	Verify the Fowler, Knee Gatch and Hi-Lo movements to ensure that the motion interrupt switch integrate			
	to the four electric actuators is operating properly.			
	Auxiliary outlet (option available only with 120V beds) working properly.			
	Night light (optional) working properly.			
	Head end bumpers tightly secured to frame and working properly.			
	No rips or cracks in mattress cover. Power cord is not frayed. Replace if the protective sleeve is cut or torn.			
	No cables worn or pinched.			
	All electrical connections tight.			
	All grounds secured to the frame.			
	All casters roll properly. Check caster for cuts, wear, etc.			
	Measure current leakage and grounding continuity of the bed and the optional auxiliary outlet. Check wit			
	our Technical Service department for the acceptable values.			
Bed Seri	al Number:			
1				

Completed by:

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Cleaning

BED CLEANING



CAUTION

Do not use harsh cleaners, solvents or detergents. Equipment damage could occur. **Do not steam clean, hose off or ultrasonically clean the bed. Do not immerse any part of the bed.** The bed electrical parts may be damaged by exposure to water.

Germicidal disinfectant, used as directed, and/or Chlorine Bleach products are not considered as mild detergents. These products are corrosive in nature and may cause damage to your bed if used improperly. If these types of products are used, ensure the beds are wiped with clean water and thoroughly dried following cleaning. Failure to properly rinse and dry the beds will leave a corrosive residue on the surface of the bed, possibly causing premature corrosion of critical components. Failure to follow the above directions when using these types of cleaners may void the product's warranty.

CLEANING BEDS

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.

MATTRESS CARE



WARNING

Inspect the mattress after each use. Discontinue use if any cracks or rips, which may allow fluid to enter the mattress, are found in the mattress cover. 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 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 bed label.
- Inspect mattress cover surface, interior and exterior, as well as 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.

Troubleshooting Guide

Problem/Failure	Recommended Action
No power to bed No bed up or down motion when: The removable pendant control (optional) is used. The foot board command is used.	 Is the bed power switch at the head end of the bed turned on? Is the power cord connected to the power connector and plugged into the power source? Is the power cord severed? Replace if so. Are the two fuses inside the power connector still operational (see page 50) Verify power at the power source. Is the Hi-Lo lockout activated (LED off)? If so, deactivate it (LED on). Is the cable of the removable pendant control (optional) properly connected to the bed connector under the mattress support? Check points of the "No power to bed" problem
No Fowler up or down motion when: The siderail (optional) or removable pendant control (optional) is used. The foot board command is used.	 described above. Is the Fowler lockout activated (LED off)? If so, deactivate it (LED on). Is the cable of the siderail control panel (optional) or of the removable pendant control (optional) properly connected to the bed connector under the mattress support? Check points of the "No power to bed" problem described above.
The Fowler does not fully raise.	This situation arises when the CPR emergency release (optional) is used to partially lower the Fowler. The use of the CPR for this purpose creates a situation where the Fowler motor is out of sync with the actual position of the Fowler. To correct the situation: • Lower the Fowler completely using a CPR handle or the Fowler electric control to enable the Fowler motor to reset itself and thus synchronize its course with the actual position (flatten) of the Fowler.
 No Knee Gatch up or down motion when: The siderail (optional) or removable pendant control (optional) is used. The foot board command is used. 	 Is the Knee Gatch lockout activated (LED off)? If so, deactivate it (LED on). Is the cable of the siderail control panel (optional) or of the removable pendant control (optional) properly connected to the bed connector under the mattress support? Check points of the "No power to bed" problem described above.

Troubleshooting Guide

Problem/Failure	Recommended Action	
The positioning mechanisms of the Fowler, and/or	Check the four actuator screws to verify their lubrication	
the Knee Gatch, and/or the bed height operate with	condition and apply grease if needed (see page 19).	
difficulty.		
No Auto Contour (optional) motion.	Is the Knee Gatch lockout activated (LED off)? If so,	
	deactivate it (LED on).	
	Check and replace if needed the two Auto Contour limit	
	switches (see page 51).	
Improper operation of the CPR emergency release	Check and replace if needed the two CPR mechanism	
(optional): Knee Gatch does not lower and/or the Fowler	limit switches (see page 53).	
actuator does not reset.		

Quick Reference Replacement Parts List

Note

The parts and accessories listed on this page are all currently available for purchase. Some of the parts identified on the assembly drawing parts in this manual may not be individually available for purchase. Please call Stryker Customer Service USA: 1-800-327-0770 (Option 2), Canada: 1-888-233-6888 for availability and pricing.

Part Name	Part Number	Parts List
Electric/Electronic Components		
Motor Control Board	QDF23-0315	OL230015G
Micro Switch	1325P003 / QDF9159	OL230227G / OL230037
Fuse - Fast Acting 10A, 250V (100/120V)	QDF8078	OL230015G / OL230112
Fuse - Slow Blow 6.3A, 250V (200/220/240V)	QDF8068	OL230116
Power Cord with Straight North American Molded Plug	QDF8066	OL250053
Night Light (Optional)	QDF9539	OL230017
5A Circuit Breaker for Auxiliary Outlet (optional)	QDF9025	OL230010G
Hi-Lo Actuator	23-0702	OL230015G
Head Section Actuator	23-0335	OL230015G
Thigh Section Actuator	23-0336	OL230015G
Toroidal Transformer - International Series Beds	QDF14-1160	OL230117 / 118 / 119
Stand-Off Pins: Motors Control Board	QP23-0258	OL230015G
Strain-Relief Bushing	QDF9541	OL230015G
Support for the Foot End Control Panel Membrane	QP17-0127-07	OL230209 / OL230210
Foot End Control Panel Membrane	QDF17-0693 / QDF17-0180	OL2300209 / OL230210 OP230196 / OP230206
Siderail Components		
Protective Cap	QDFP1514	OL230235C/CG / OL230236C/CG
Transfer Plate - Half-Length Siderail	23-0664G 23-0663G	OL230235C/CG / OL230236C/CG
Left Inner Membrane without Nurse Call Right Inner Membrane without Nurse Call	QDF23-0392 QDF23-0393	OL230199
Right Inner Membrane with Nurse Call Left Inner Membrane with Nurse Call	QDF23-0396 QDF23-0397	OL230198
Left Outer Membrane	QDF23-0405	OL230236C / CG
Right Outer Membrane	QDF23-0406	OL230236C / CG
PVC Protector for Painted Head Half-Length Siderails	23-0476	OL230029
PVC Protector for Painted Foot Half-Length Siderails	23-0478	OL230029
PVC Protector for Painted Full-Length Siderails	23-0641	OL230063

Quick Reference Replacement Parts List

Part Name	Part Number	Parts List
Mattress Support Components		
Lateral Mattress Retainer	QP14034-07	L23-002G
IV Pole Holder	QP17-0121	L23-003G
Caster		
6" with Lock Mechanism	RD25038807	OL230048
6" without Lock Mechanism	RD25049307	OL230048
6" with Steer Mechanism	RD25049607	OL230048
5" with Lock Mechanism	RD25049407	OL230044
5" without Lock Mechanism	RD25039107	OL230044
5" with Steer Mechanism	RD25049507	OL230044
5 th Wheel Mechanism 5" Caster (Optional)	RL5	OL230113G
Base Components		
Rue Ring Cotter Diameter 3/8"	QDF7878	OL230042G / OL230043G
Green Sticker - 5 th Wheel	QE71-0496	OL230042G / OL230043G
Red Sticker - Brake	QE71-0511	OL230042G / OL230043G
Wheel Cover - Right (Optional)	QP28-0299-07	OL230101
Wheel Cover - Left (Optional)	QP28-0300-07	OL230101
Brake/Steer Pedal	QP23-0627	OL230042G
Velcro Fastener	25-0550	OL230101
Miscellaneous		
Grey Spray Paint	DDCAP-GSP	
Shoulder Spacer	QDF17-0020	
Nylon Cable Tie	QDF9518	

Operation Guide

MAINTENANCE PROCEDURES



WARNING

Always unplug the bed power cord when cleaning or servicing the bed.

To prevent injury when working under the bed with the bed in the high position, always place blocks under the Hi-Lo levers and apply the brakes. Always unplug the bed power cord from the power source when servicing or cleaning the bed.

STATIC DISCHARGE PRECAUTIONS

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

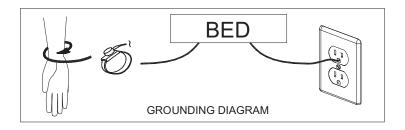
STATIC PROTECTION EQUIPMENT

The necessary equipment for a proper static protection is:

- 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 power source.
- Insert the grounding plug into a properly grounded hospital grade wall receptacle. Plug the banana plug of the test lead into the receptacle on the grounding plug. Connect the alligator clip on the other end of the test lead to a ground point on the bed.
- 3. Place the static control wrist strap on your wrist. Connect the clip at the other end of the wrist strap cord to a ground point on the bed.





WARNING

Always unplug the bed power cord when cleaning or servicing the bed.

To prevent injury when working under the bed with the bed in the high position, always place blocks under the Hi-Lo levers and apply the brakes. Always unplug the bed power cord from the power source when servicing or cleaning the bed.

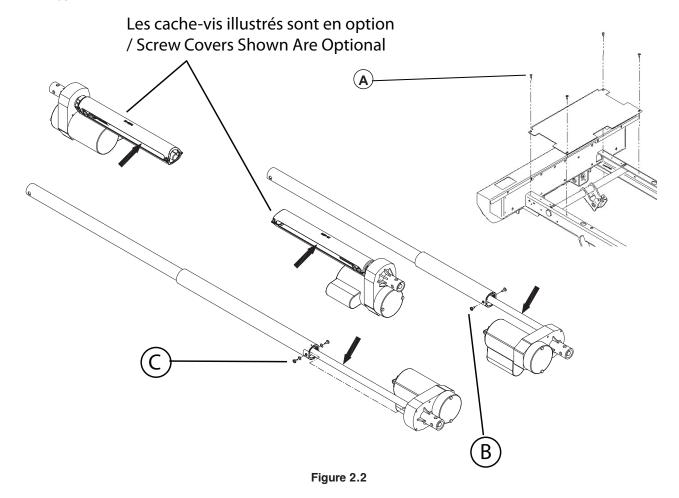
ACTUATOR LUBRICATION

Note

In compliance with the service life requirement of the BNQ 6641-120/2003 standard, this unit was designed maintenance free with regard to lubrication. However, if the bed is used improperly or cleaned without following the recommendations set forth in the Maintenance Manual (presence of cleaning detergent on the actuator screws), a lubrication of the actuator could be necessary.

Tools Required:

- No. 2 Phillips Screwdriver
- 1/4" Ratchet (with 6" extension) and 5/16" Socket
- · Bungee Cords
- OG2 Grease
- Brush



ACTUATOR LUBRICATION (CONTINUED)

Procedure:

Head and Thigh Actuators

- 1. Completely raise the bed and apply the brakes.
- 2. Completely raise the head section and flatten the thigh section to expose maximum screw threads on both actuators. Lower the four siderails.
- 3. Unplug the power cord from the power source.
- Lift and fold back the foot section toward the head end of the bed. Attach the section to the bed using bungee cords.
- 5. Using a no. 2 Phillips screwdriver, remove the four screws (A) holding the cover plate to the frame and remove the plate. Remove the optional night light if present.
- 6. a. Using a 1/4" ratchet (with 6" extension) and a 5/16" socket, remove the two screws (B) holding the dust tube of each knee gatch actuator. Push the tube to free it.
 - b. For the head actuator, remove the two screws, spring washer (C) holding the dust tube of the actuator. Push the tube to free the threads.
- 7. Using a brush, apply grease on the screw threads. Make sure the grease reaches the bottom of the threads.
- 8. Replace the dust tubes.
- 9. Using the electric controls, raise and lower several times the Fowler and Knee Gatch to spread the grease evenly.
- 10. Replace the cover plate.

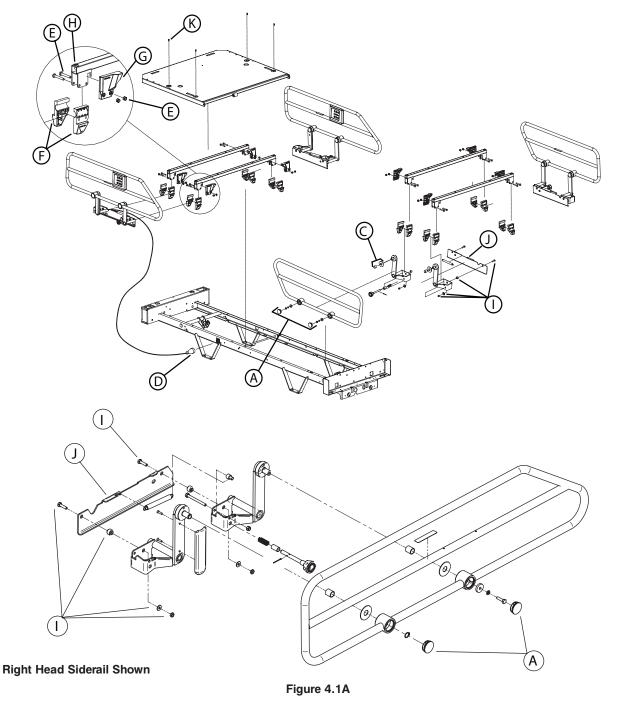
Hi-Lo Actuators

- 1. Lower the bed completely.
- Completely raise the head and foot sections, then lift and fold back the foot section toward the head end of the bed.
- 3. Unplug the power cord from the power source.
- 4. Using a brush, apply grease on the threads of the Hi-Lo actuators screws. Optional dust tubes may be present, if so, simply apply grease through the dust tube side openings.
- 5. Using the electric controls, raise and lower the bed several times to spread the grease evenly.

SIDERAIL REPLACEMENT HALF-LENGTH RAIL REPLACEMENT

Tools Required:

- · Small Slotted Head Screwdriver
- · Long Nose Pliers
- Retaining Ring Pliers
- · Rubber Mallet
- 7/16" Socket Wrench



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SIDERAIL REPLACEMENT (CONTINUED)

HALF-LENGTH SIDERAIL

Procedure:

- 1. Completely raise the bed and apply the brakes.
- 2. Position all the mattress support sections to flat.
- 3. Unplug the bed power cord from the power source.
- 4. Raise the siderail needing repair.
- 5. Using a small slotted head screwdriver and long nose pliers, remove the two protective caps (A). Be careful while using the tools not to damage the siderail paint.

Note

Replace the caps using a rubber mallet. The removal of the caps may damage them; make sure you have some on hand.

- 6. a. For a head siderail, using the retaining ring pliers, remove the retaining ring on one arm and using the 7/16" socket wrench, remove the nut, spring washer and spacer holding the rail in place.
 - b. For a foot siderail, remove using the 7/16" socket wrench the nut, the spring washer and the spacer holding the siderail in place.

Note

Inspect the self-lubricating bearings for wear and replace them if need be.

- 7. Reverse the above steps to install the replacement rail.
- 8. Verify the siderail movement for proper operation before returning the bed to service.

HALF-LENGTH SIDERAIL ASSEMBLY REPLACEMENT

Tools Required:

- 7/16" Socket Wrench
- 7/16" Wrench
- Cutting Pliers

Procedure:

Note

Unless otherwise indicated, refer to figure 4.1A on page 21 for the following replacement procedure.

- 1. Completely raise the bed and apply the brakes.
- 2. Depending on the position of the siderail needing repair, place the mattress support sections as follows:
 - · Head Siderail: Completely raise the head section.
 - Foot Siderail: Lower completely the head section. Completely raise the thigh section, then lift and fold back the foot section toward the head end of the bed.
- 3. Unplug the bed power cord from the power source.
- 4. Raise the siderail needing repair.
- 5. Using cutting pliers, cut, if applicable, the cable ties holding the siderails fixed control cable (optional). Loosen the lock ring (D) and unplug the cable.

Note

Note the position and the gathering of the cable before cutting the cable ties to make sure the replacement cable will be connected correctly.

6. Using the 7/16" socket wrench and 7/16" wrench, remove the two locknuts and bolts (E) holding the two half bushings (F), the stopper (G) and the siderail mechanism to each of the two siderail support (H). Remove the half bushings and the mechanism from their location, hold the bushings tightly to prevent them from falling to the ground.

Note

First, remove the two locknuts and bolts at one end of the assembly and, while holding the assembly, finish with the ones at the opposite end.

- 7. Reverse the above steps to install the replacement siderail assembly.
- 8. Verify the siderail for proper operation before returning the bed to service.

TRANSFER PLATE REPLACEMENT

Tools Required:

- · 7/16" Socket Wrench
- 7/16" Wrench
- Torque Wrench

Procedure:

Note

Unless otherwise indicated, refer to figure 4.1A on page 21 for the following replacement procedure.

- 1. Completely raise the bed and apply the brakes.
- 2. Depending on the siderail position, place the mattress support sections as follows:
 - · Head Siderail: Completely raise the head section.
 - Foot Siderail: Lower completely the head section. Completely raise the thigh section, then lift and fold back the foot section toward the head end of the bed.
- 3. Unplug the bed power cord from the power source.
- 4. Lower the siderail needing repair.
- 5. Using the 7/16" socket wrench and 7/16" wrench, remove the two locknuts, bushings, washers and bolts (I) holding the transfer plate (J) to the siderail mechanism.

Note

At assembly, tighten the two locknuts to a 75 lb/in torque using the torque wrench.

- 6. Reverse the above steps to install the replacement transfer plate.
- 7. Verify the siderail for proper operation before returning the bed to service.

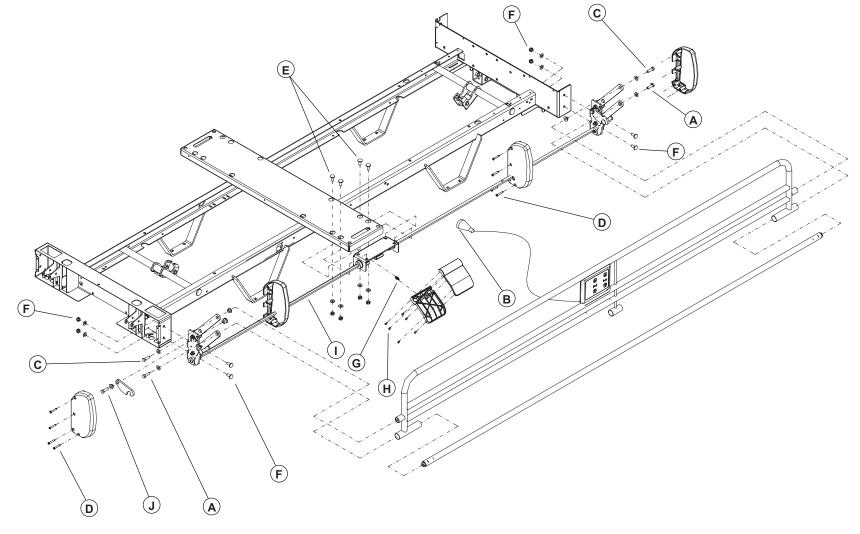


Figure 4.1B

FULL-LENGTH SIDERAIL PIVOT TUBE REPLACEMENT

Tools Required:

- 1/2" Wrench
- Rubber Mallet

Procedure:

Note

Unless otherwise indicated, refer to figure 4.1B on page 25 for the following replacement procedure.

- 1. Completely raise the bed and apply the brakes.
- 2. Unplug the bed power cord from the power source.
- 3. Lower the siderail needing repair.
- 4. Using the 1/2" wrench, remove the two bolts and washers (A) holding the pivot tube ends to the siderail mechanism arms. Use a rubber mallet to free the tube ends from the arms.
- 5. Slide the tube out of its location.

Note

Apply grease on a 4" distance from both ends of the tube.

- 6. Reverse the above steps to install the replacement pivot tube.
- 7. Verify the siderail movement before returning the bed to service.

FULL-LENGTH RAIL REPLACEMENT

Tools Required:

- 1/2" Wrench
- Rubber Mallet

Procedure:

Note

Unless otherwise indicated, refer to figure 4.1B on page 25 for the following replacement procedure.

- 1. Completely raise the bed and apply the brakes.
- 2. Unplug the bed power cord from the power source.
- 3. Raise the siderail needing repair.
- 4. Loosen, if applicable, the lock ring (B) and unplug the removable pendant control (optional) cable. Remove the pendant control from the siderail by sliding it out its supports.
- 5. Using the 1/2" wrench, remove the four bolts and washers (A, C) holding the rail to the siderail mechanism arms. Use a rubber mallet to free the tube ends from the arms.

Note

Hold the rail firmly when removing the last bolts.

- 6. Reverse the above steps to install the replacement rail.
- 7. Verify the siderail movement before returning the bed to service.

FULL-LENGTH SIDERAIL ASSEMBLY REPLACEMENT

Tools Required:

- · No. 2 Phillips Screwdriver
- Two 1/2" Wrenches

Procedure:

Note

Unless otherwise indicated, refer to figure 4.1B on page 25 for the following replacement procedure.

- 1. Completely raise the bed and raise the siderail needing repair.
- 2. Unplug the bed power cord from the power source.
- 3. Remove the head and foot boards.
- 4. Using two 1/2" wrenches, remove the two locknuts and bolts (K, figure 4.3C, page 42) holding the two bumpers to their supports at the head end of the bed.
- Using the no. 2 Phillips screwdriver, remove the seven screws (Q, figure 4.3C, page 42) holding the cover to the head end casing. Remove the cables connected to the power connector after having noted their location and remove the cover.
- 6. Using the no. 2 Phillips screwdriver, remove the ten screws (A, figure 4.2A, page 31) holding the cover and the IV pole holders to the foot casing. Lift and remove the cover while taking care to disconnect the control panel cable (B, figure 4.2A, page 31) from the control board and, if applicable, the foot end casing connector cable (C, figure 4.2A, page 31) (optional).
- 7. Using the no. 2 Phillips screwdriver, remove the four screws (D) holding together the two parts of both siderail mechanism covers. Remove the covers.
- 8. Using the 1/2" wrench, remove the four nuts, washers and bolts (E) holding the siderail release handle to the seat section.
- 9. Using the 1/2" wrench, remove the two nuts, washers and bolts (F) holding each end of the full-length siderail to the head end and foot end casings.
- 10. Reverse the above steps to install the replacement siderail assembly.
- 11. Verify the siderail for proper operation before returning the bed to service.

FULL-LENGTH SIDERAIL RELEASE HANDLE REPLACEMENT

Tools Required:

- Long Nose Pliers
- · No. 1 Phillips Screwdriver
- Bungee Cord
- 7/16" Wrench

Procedure:

Note

Unless otherwise indicated, refer to figure 4.1B on page 25 for the following replacement procedure.

- 1. Completely raise the bed and apply the brakes.
- 2. Unplug the bed power cord from the power source.
- 3. Raise both siderails.
- 4. Using long nose pliers, remove the return spring (G).
- 5. Attach the siderail needing repair to the other siderail using a bungee cord.
- 6. Using the No. 1 Phillips screwdriver, remove the six screws (H) holding both parts of the release handle. Hold the lower part to prevent it from falling.
- 7. Using the 7/16" wrench, remove the upper part of the handle by turning the lock rod (I) towards the floor.

Note

Use the same procedure to insert the upper part of the new handle on the rod, but this time turning the lock rod up.

- 8. Reverse the above steps to install the replacement release handle.
- 9. Verify the release handle for proper operation before returning the bed to service.

FULL-LENGTH SIDERAIL LOCKING HOOK REPLACEMENT

Tools Required:

- · No. 2 Phillips Screwdriver
- Bungee Cord
- Two 1/2" Wrenches

Procedure:

Note

Unless otherwise indicated, refer to figure 4.1B on page 25 for the following replacement procedure.

- 1. Completely raise the bed and raise the siderail needing repair.
- 2. Unplug the bed power cord from the power source.

If the hook is at the head end of the bed, follow steps 3 to 6, then go to step 8. If the hook is at the foot end of the bed, go directly to step 7.

Head End

- 3. Remove the head board.
- 4. Raise the defective siderail.
- 5. Using the two 1/2" wrenches, remove the two locknuts and bolts (K, figure 4.3C, page 42) holding the bumpers to their support.
- 6. Using the No. 2 Phillips screwdriver, remove the seven screws (Q, figure 4.3C, page 42) holding the cover of the head box. Remove cables connected to power connector taking note of their position then remove cover.

Foot End

- 7. Using the No. 2 Phillips screwdriver, remove the ten screws (A, figure 4.2A, page 31) holding the cover as well as the two IV poles to the foot box. Raise and remove the cover taking care to disconnect the electronic board first, the cable (B, Figure 4.2A, page 31) of the control panel and, if applicable, the cable (C, figure 4.2A, page 31) of the connector from the foot box (optional).
- 8. Using the No. 2 Phillips screwdriver, remove the four screws (D) holding the two parts of the plastic cover over the siderail mechanism. Remove cover.
- 9. Using the two 1/2" wrenches, remove locknut, shoulder spacer and bolt (J) holding the locking hook to the plate. Remove hook.
- 10. Reverse the preceding steps to install the new hook.
- 11. Verify siderail for proper operation before returning the bed to service.

FOOT END CONTROL PANEL REPLACEMENT

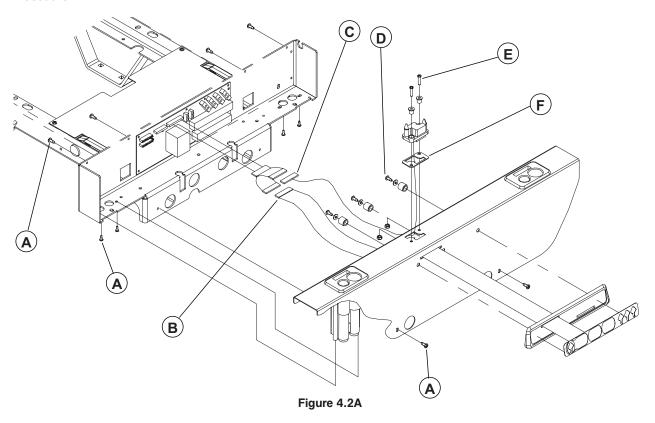
Tools Required:

No. 2 Phillips Screwdriver

Note

The control panel is made of a membrane and its support. Both parts should be ordered for this replacement procedure. Refer to the "Quick Reference Replacement Parts List" section on page 16.

Procedure:



- 1. Completely raise the bed and apply the brakes.
- 2. Unplug the bed power cord from the power source.
- 3. Remove the foot board.
- 4. Using the No. 2 Phillips screwdriver, remove the ten screws (A) holding the cover and the IV pole holders to the foot casing.
- 5. Use the Static Discharge Precautions procedure (see page xx).
- 6. Lift and remove the cover taking care to disconnect the electronic board, the cable (B) from the control panel and, if applicable, the foot casing connector cable ((optional), C). Lay the cover on a workbench.
- 7. Using the No. 2 Phillips screwdriver, remove the three screws, washers and spacers (D) holding the panel to the cover.
- 8. Reverse the above steps to install the new control panel.
- 9. Verify all the controls of the foot end control panel before returning the bed to service.

FOOT END CASING CONNECTOR REPLACEMENT (OPTIONAL)

Tools Required:

- · No. 2 Phillips Screwdriver
- 3/8" Wrench

Procedure:

Note

Unless otherwise indicated, refer to figure 4.2A on page 31 for the following replacement procedure.

- 1. Completely raise the bed and apply the brakes.
- 2. Unplug the bed power cord from the power source.
- 3. Remove the foot board.
- 4. Using the No. 2 Phillips screwdriver, remove the ten screws (A) holding the cover and the two IV pole holders to the foot casing.
- 5. Lift and remove the cover taking care to disconnect the electronic board, the control panel cable (B) and the foot casing connector cable (C). Lay the cover on a workbench.
- 6. Using the 3/8" wrench, remove the two locknuts, shoulder spacers and screws (E) holding the connector and the seal (F) to the cover. Remove the defective connector using the 3/8" wrench and No. 2 Phillips screwdriver. Keep the seal for the replacement connector.
- 7. Reverse the above steps to install the new connector.
- 8. Verify all the controls of the foot end control panel for proper operation before returning the bed to service.

FOOT BOARD CONTROL PANEL REPLACEMENT (OPTIONAL)

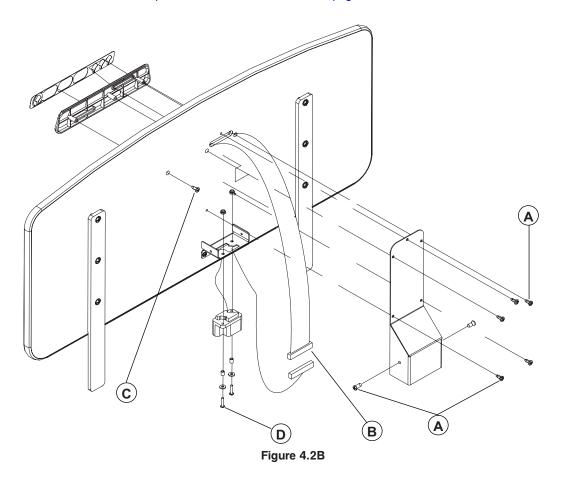
Tools Required:

- No. 2 Phillips Screwdriver
- · Double-Sided Tape

Procedure:

Note

The control panel is made of a membrane and its support. Both parts should be ordered for this replacement procedure. Refer to the "Quick Reference Replacement Parts List" section on page 16.



- 1. Completely raise the bed and apply the brakes.
- 2. Unplug the bed power cord from the power source.
- 3. Remove the foot board and lay it on a workbench.
- 4. Using the No. 2 Phillips screwdriver, remove the seven screws (A) holding the support cover to the inner face of the foot board and remove the cover.
- 5. Disconnect the foot board panel cable (B).
- 6. Using the No. 2 Phillips screwdriver, remove the last screw (C) holding the control panel to the foot board. Remove the panel. A small part of the panel cable is stuck to the inner face of the panel with a small double-sided tape. Do the same at reassembly.
- 7. Reverse the above steps to install the replacement foot board panel.
- 8. Verify all the controls of the foot board panel for proper operation before returning the bed to service.

FOOT BOARD CONNECTOR REPLACEMENT (OPTIONAL)

Tools Required:

- · No. 2 Phillips Screwdriver
- 9 mm Wrench

Procedure:

Note

This connector is present when the bed is equipped with a foot board control panel.

Unless otherwise indicated, refer to figure 4.2B on page 33 for the following replacement procedure.

- 1. Completely raise the bed and apply the brakes.
- 2. Unplug the bed power cord from the power source.
- 3. Remove the foot board and lay it on a workbench.
- 4. Using the No. 2 Phillips screwdriver, remove the seven screws (A) holding the support cover to the inner face of the foot board and remove the cover.
- 5. Disconnect the foot board connector cable (B).
- 6. Using the 9 mm wrench and No. 2 Phillips screwdriver, remove the two locknuts, washers, sleeves and screws (D) holding the connector to its support. Remove the defective connector.
- 7. Reverse the above steps to install the replacement connector.
- 8. Verify the foot board controls for proper operation before returning the bed to service.

SIDERAIL CONTROL PANEL MEMBRANE REPLACEMENT

Tools Required:

No. 2 Phillips Screwdriver

Note

The replacement of a membrane implies that the one facing it on the inner or outer control panel also has to be replaced. Service kits, including both membranes are available.

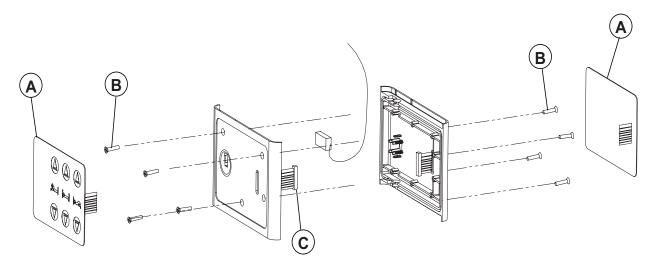


Figure 4.2C

Procedure:

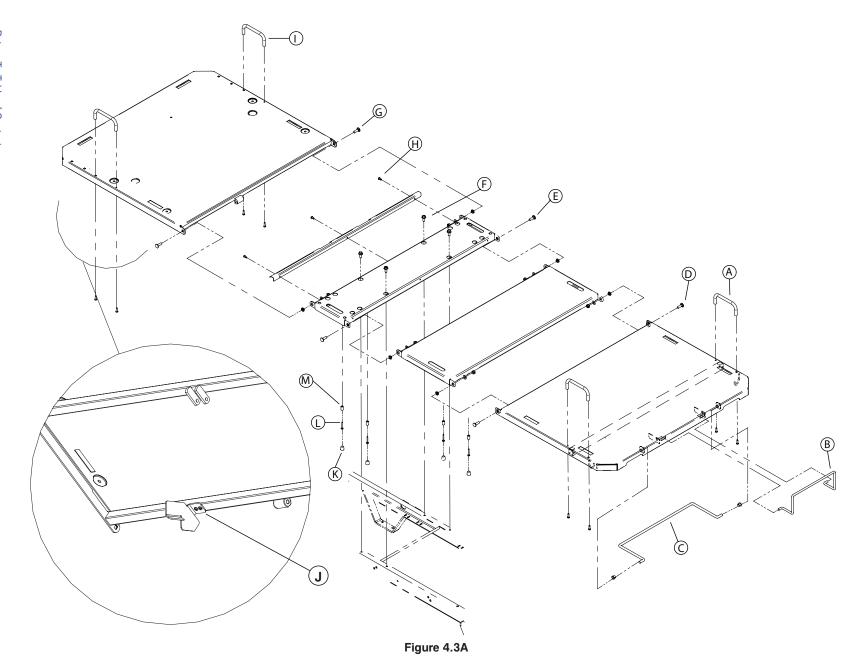
- 1. Completely raise the bed and apply the brakes. Bring the head section to horizontal position.
- 2. Unplug the bed power cord.
- 3. Raise the head siderail needing repair.
- 4. Properly ground yourself (see page 18).
- 5. Detach the two membranes (A) from their mounting plates and let them hang down.
- 6. Using a No. 2 Phillips screwdriver, remove the eight screws (B) holding together the two sections of the control panel housing.
- 7. Open the housing, disconnect the defective membrane cable (C) and remove the membrane.
- 8. Reverse the above steps to install the new control panel membranes.

Note

Make sure to connect the membrane cables before fastening together the two sections of the control panel housing. Stick the membranes to the support at the end of the replacement procedure.

9. Verify all the siderail functions for proper operation before returning the bed to service.

MATTRESS SUPPORT REPLACEMENT



FOOT SECTION REPLACEMENT

Tools Required:

- · No. 2 Phillips Screwdriver
- 1/2" Wrench
- · Bungee Cords

Procedure:

- 1. Completely raise the bed and apply the brakes. Flatten all sections of the mattress support.
- 2. Unplug the bed power cord from the power source.
- 3. Lower the siderails.
- Lift and fold back the foot section toward the head end of the bed. Secure the section to the bed using a bungee cord.
- 5. Using the No. 2 Phillips screwdriver, remove the two lateral mattress retainers (A).
- 6. Remove the foot end mattress retainer (B).
- 7. Remove the foot prop rod (C).
- 8. Remove the bungee cord and replace the foot section to horizontal position.
- 9. Using the 1/2" wrench, remove the two locknuts, washers, shoulder spacers and bolts (D) linking the foot section to the thigh section and remove the defective section.
- 10. Reverse the above steps to install the new foot section.

THIGH SECTION REPLACEMENT

Tools Required:

- · Long Nose Pliers
- 1/2" Wrench
- Bungee Cords

Procedure:

Note

Unless otherwise indicated, refer to figure 4.3A on page 36 for the following replacement procedure.

- 1. Completely raise the bed and apply the brakes. Flatten all sections of the mattress support.
- 2. Unplug the bed power cord from the power source.
- 3. Lower the siderails.
- Lift and fold back the foot section toward the head end of the bed. Secure the section to the bed using a bungee cord.
- 5. Using long nose pliers, remove the rue ring cotter, washers and clevis pin (D, figure 4.3C, page 42) linking the thigh section lever arms to the thigh actuator tube.

Note

Before linking back the thigh actuator tube to the thigh section lever arms, verify that the actuator course was preserved. To do so, refer to the caution that follows step 16 of the "Knee Gatch Actuator Replacement Procedure" on page 44 and proceed with step 17 of the procedure.

- 6. Remove the bungee cord and bring the foot section back to flat position.
- 7. Using the 1/2" wrench, remove the four locknuts, washers, shoulder spacers and bolts (D, E) linking the thigh section to the foot and seat sections and remove the thigh section.
- 8. Reverse the above steps to install the replacement thigh section.

SEAT SECTION REPLACEMENT

Tools Required:

- 1/2" Long Socket Wrench
- · Torque Wrench
- 1/2" Wrench
- No. 2 Phillips Screwdriver

Procedure:

Note

Unless otherwise indicated, refer to figure 4.3A on page 36 for the following replacement procedure.

- 1. Completely raise the bed and apply the brakes. Flatten the mattress support.
- 2. Unplug the power plug from the power source.
- 3. Lower the siderails.
- 4. Using the 1/2" long socket wrench, remove the four thread rolling bolts (F) holding the seat section to the frame.

Note

At reassembly, screw the bolts in manually and then tighten applying a 135 lb/in torque.

- 5. Using the 1/2" wrench, remove the four locknuts, washers, shoulder spacers and bolts (E, G) linking the seat section to the thigh and head sections and remove the seat section.
- 6. Using the Phillips No. 2 screwdriver turn the seat section up side down and remove the three screws (H) holding the protective plate to the seat section. Keep the plate for the replacement seat section.
- 7. Remove the four rubber caps (K) covering the screws (L) holding the stops (M) to the defective section and replace the parts on the replacement section.
- 8. Reverse the above steps to install the replacement seat section.

HEAD SECTION REPLACEMENT

Tools Required:

- · No. 2 Phillips Screwdriver
- Strap
- Two 1/2" Wrenches
- Two 7/16" Wrenches

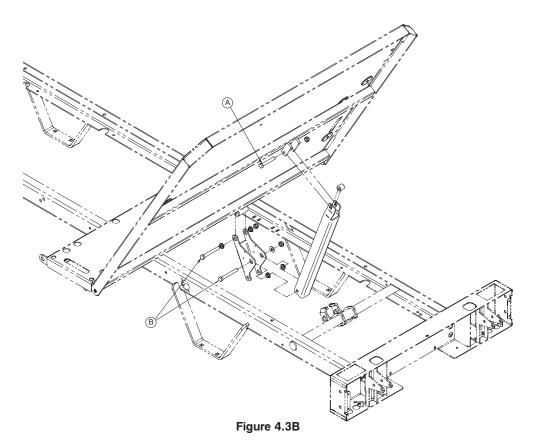
Procedure:

Note

Unless otherwise indicated, refer to figure 4.3A on page 36 for the following replacement procedure.

- 1. Completely raise the bed and apply the brakes.
- 2. If the bed is equipped with full-length siderails, lower them. If equipped with half-length siderails, raise the head siderails and lower the foot ones.
- 3. Remove the head board.
- 4. Completely raise the head section and attach it securely to the bed using a strap. It must not move during the procedure.
- 5. Unplug the bed power cord from the power source.
- 6. Using the No. 2 Phillips screwdriver, remove the two lateral mattress retainers (I) and keep them for the replacement head section.

If the bed is not equipped with the CPR emergency release (optional), proceed with steps 7 to 14. Otherwise, proceed with steps 15 to 24.



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HEAD SECTION REPLACEMENT (CONTINUED)

- 7. Using two 1/2" wrenches, remove the locknut, spacer and bolt holding the upper part of the compression bar to the head section and lay it down.
- 8. Using two 1/2" wrenches, remove the locknut, shoulder spacers and bolt (B) linking the mattress support lever to the head section and remove the lever-compression bar assembly.
- 9. Remove the strap and manually lower the head section completely.
- 10. If the bed is equipped with half-length siderails, lower the head siderails, and use the No. 2 Phillips screwdriver to remove the four screws (K, figure 4.1A, page 21) holding the two siderail supports to the head section. Let the supports-siderails assembly rest on the frame.
- 11. Using the 1/2" wrench, remove the two locknuts, flat washers, shoulder spacers and bolts (G) linking the head section to the seat section. Remove the defective head section.
- 12. Using the no. 2 Phillips screwdriver, remove the two screws (J) holding the micro switch activator (optional) to the head section.

Note

This activator is present only if the bed is equipped with the optional Auto Contour positioning. Remember the position of the micro switch activator before removing the screws. Properly positioned, the blade of the Auto Contour micro switch is pushed in by the activator when the Fowler is in flat position.

- 13. Reverse the above steps to install the replacement head section.
- 14. Verify the Auto Contour positioning (optional) for proper operation before returning the bed to service.

End of the procedure for beds with Auto Contour.

Note

Unless otherwise indicated, refer to figure 4.3A on page 36 for the following replacement procedure.

- 15. Disconnect the two wires (A, figure 4.3F, page 53) from the micro switch located on the head section lever. Note their position before doing so.
- 16. Using two 7/16" wrenches, remove the locknut and bolt (O, figure 4.3F, page 53) holding the cylinder end fitting to the head section.
- 17. Using two 1/2" wrenches, remove the nut, shoulder spacers and bolt (P, figure 4.3F, page 53) holding the upper part of the section lever to the head section.
- 18. Using a 7/16" wrench, remove the two locknuts and bolts (Q, figure 4.3F, page 53) holding each CPR release handle to the head section.
- 19. Remove the strap and manually lower the head section completely.
- 20. If the bed is equipped with half-length siderails, lower the head siderails and use the No. 2 Phillips screwdriver to remove the four screws (K, figure 4.1A, page 21) holding the two siderail supports to the head section. Let the supports-siderails assembly rests on the frame.
- 21. Using the 1/2" wrench, remove the two locknuts, shoulder spacers, washers and bolts (G) holding the head section to the seat section. Remove the defective head section.
- 22. Using the No. 2 Phillips screwdriver, remove the two screws holding the activator (J) to the head section.

Note

Note the position of the activator before removing the screws. Properly positioned, the blade of the CPR and Auto Contour (optional) micro switches are pushed in by the activator when the Fowler is in flat position.

- 23. Reverse the above steps to install the replacement head section.
- 24. Verify the CPR emergency release and the Auto Contour positioning (optional) for proper operation before returning the bed to service.

End of the procedure for beds with CPR and Auto Contour.

FOWLER ACTUATOR REPLACEMENT

Tools Required:

- Long Nose Pliers
- · No. 2 Phillips Screwdriver
- Cutting Pliers
- 5/16" Socket Wrench
- · Small Slotted Head Screwdriver
- Pliers
- · Bungee Cord

Procedure:

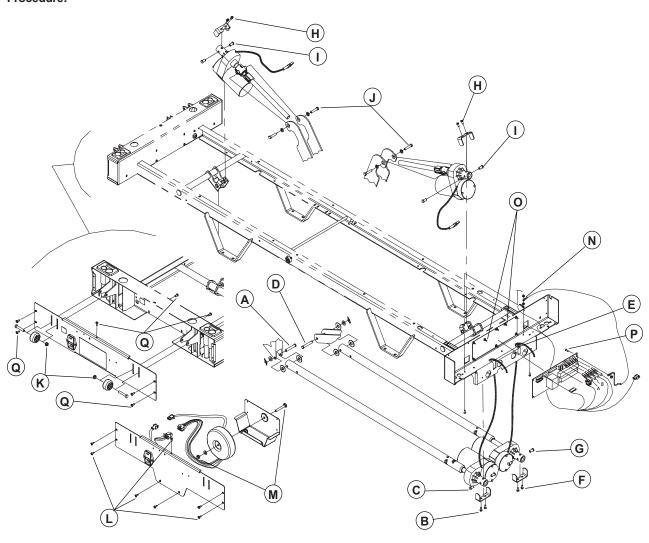


Figure 4.3 C

- 1. Completely raise the bed and apply the brakes. Completely raise the Knee Gatch section and flatten the Fowler section.
- 2. Unplug the bed power cord from the power source.
- 3. Raise the siderails.

FOWLER ACTUATOR REPLACEMENT (CONTINUED)

- 4. Manually lift and fold the foot section back toward the head end of the bed. Attach it securely to the bed using a bungee cord.
- Using long nose pliers, remove the rue ring cotter, washers and clevis pin (A) linking the head actuator tube to the section lever arms.
- 6. Remove the foot board.
- 7. Using the No. 2 Phillips screwdriver, remove the ten screws (A, figure 4.2A, page 31) holding the cover and the two IV pole holders to the foot casing.
- 8. Lift up and remove the cover, taking care first to disconnect, from the control board, the control panel cable (B, figure 4.2A, page 31) and, if applicable, the foot casing connector cable ((optional), C, figure 4.2A, page 31).
- Properly ground yourself (see page 18).
- 10. Using cutting pliers, cut the cable tie holding the head actuator cable to the other cables.
- 11. Disconnect the actuator cable (connector J8) from the control board and remove the cable from the foot end casing.
- 12. Using the 5/16" socket wrench, remove the two screws (B) holding the retaining plate to the actuator support.
- 13. Remove the two pivot pins (C) holding the actuator to the support. To facilitate the removal of the pins, insert a small slotted head screwdriver into the opening at the end of the actuator and push out the pins.
- 14. Move the actuator toward the centre of the bed to remove it from its location.
- 15. Reverse the above steps to install the replacement actuator. Take note of the following caution before hooking up the actuator tube to the head section lever arms.



CAUTION

It is of utmost importance that the course of the replacement head actuator be adjusted before hooking up its tube to the head section lever arms. An improper adjustment can damage the head section structure.

- 16. To adjust the course of the replacement head actuator, proceed as follows:
 - A. Make sure that the actuator cable is connected to the control board, and then connect the bed power cord.
 - B. Grab the replacement actuator tube and position its holes horizontally. While firmly holding the tube with one hand to prevent it from rotating, press the Fowler up control for a few seconds using the other hand, then press the down control until the actuator stops. This will be the lower limit of the Fowler actuator course.
 - C. Gently turn the tube in either direction to align the tube holes with those of the head section lever arms. Then, still holding firmly the tube, raise again the Fowler a few inches, and lower it completely.
 - D. Check the alignment of the holes. If the tube holes are not aligned any more with those of the lever arms, repeat steps B and C until they are. Once the holes are aligned, install the washers and the clevis pin. Slightly raise the head section manually to ease the insertion of the clevis pin.
 - E. Before installing the rue ring cotter to finalize the head actuator replacement, raise and lower completely the Fowler. Check that the actuator stops working as soon as the head section reaches the frame.

KNEE GATCH ACTUATOR REPLACEMENT

Tools Required:

- · Bungee Cord
- · Long Nose Pliers
- · No. 2 Phillips Screwdriver
- Pliers
- · Cutting Pliers
- · Small Slotted Head Screwdriver
- 5/16" Socket Wrench

Procedure:

Note

Unless otherwise indicated, refer to figure 4.3C on page 42 for the following replacement procedure.

- 1. Completely raise the bed and apply the brakes. Flatten the mattress support.
- 2. Unplug the bed power cord from the power source.
- 3. Raise the siderails.
- Manually lift and fold the foot section back toward the head end of the bed. Attach it securely to the bed using a bungee cord.
- 5. Using long nose pliers, remove the rue ring cotter, washers and clevis pin (D) linking the thigh actuator tube to the thigh section lever arms.
- 6. Using the No. 2 Phillips screwdriver, remove the ten screws (A, figure 4.2A, page 31) holding the cover and the two IV pole holders to the foot casing.
- 7. Lift up and remove the cover, taking care first to disconnect, from the control board, the control panel cable (B, figure 4.2A, page 31) and, if applicable, the foot casing connector cable ((optional), C, figure 4.2A, page 31).
- 8. Properly ground yourself (see page 18).
- 9. Using cutting pliers, cut the cable tie holding the thigh actuator cable to the other cables.
- 10. Disconnect the actuator cable (connector J9) from the control board.
- 11. Using pliers, squeeze the upper part of the black strain-relief bushing (E) holding the actuator cable to the foot casing and raise the bushing to disengage it from its location.
- 12. Disengage the cable from the strain-relief bushing and remove the cable from the foot casing.
- 13. Using the 5/16" socket wrench, remove the two screws (F) holding the retaining plate to the actuator support.
- 14. Remove the two pivot pins (G) holding the actuator to the support. To facilitate the removal of the pins, insert a small slotted head screwdriver into the opening at the end of the actuator and push out the pins.
- 15. Push on the defective actuator toward the centre of the bed to remove it from its location.
- 16. Reverse the above steps to install the replacement actuator. Take note of the following caution before hooking up the actuator tube to the thigh section lever arms.



CAUTION

It is of utmost importance that the course of the replacement thigh actuator be adjusted before hooking up its tube to the thigh section lever arms. An improper adjustment can damage the thigh section structure.

KNEE GATCH ACTUATOR REPLACEMENT (CONTINUED)

- 17. To adjust the course of the replacement thigh actuator, proceed as follows:
 - A. Make sure that the actuator cable is connected to the control board, then connect the bed power cord.
 - B. Grab the replacement actuator tube and position its holes horizontally. While firmly holding the tube with one hand to prevent it from rotating, press the Knee Gatch up control for a few seconds using the other hand, then press the down control until the actuator stops. This will be the lower limit of the Knee Gatch actuator course
 - C. Gently turn the tube in either direction to align the tube holes with those of the thigh section lever arms. Then, still holding firmly the tube, raise again the Knee Gatch a few inches, and lower it completely.
 - D. Check the alignment of the holes. If the tube holes are not aligned any more with those of the lever arms, repeat steps B and C until they are. Once the holes are aligned, install the washers and the clevis pin. Slightly raise the head section manually to ease the insertion of the clevis pin.
 - E. Before installing the rue ring cotter to finalize the head actuator replacement, raise and lower completely the Knee Gatch. Check that the actuator stops working as soon as the thigh section reaches the frame.

HI-LO ACTUATOR REPLACEMENT

Tools Required:

- KR0121 Tool Kit
- · Cutting Pliers
- 5/16" Socket Wrench
- · Small Slotted Head Screwdriver
- No. 2 Phillips Screwdriver
- 1/2" Wrench
- · Bungee Cord

Procedure:

Note

In order to preserve the adjustment of the bed's lowest position when replacing a Hi-Lo actuator, a special tool kit designed for that purpose must be used. The kit includes alignment jigs. To obtain this kit, contact our Technical Service department and order part number KR0121.

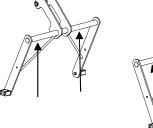
Unless otherwise indicated, refer to figure 4.3C on page 42 for the following replacement procedure.

- 1. Position the mattress support sections depending on the location of the Hi-Lo actuator to replace:
 - A. At the **foot of the bed**: Completely raise the thigh section, then lift and fold back the foot section toward the head end of the bed. Attach it securely to the bed using a bungee cord. Finally completely raise the Fowler.
 - B. At the **head of the bed**: Completely raise the Fowler.
- 2. Position the alignment jigs on the floor, on a plane surface, right under the two transversal tubes supporting the link arms of both Hi-Lo levers. Lower the bed until the tubes come to rest on the jigs (see opposite figure). Use the 3/8" socket wrench with the 1/2" socket provided in the kit to lower a defective Hi-Lo actuator until the tube rests on the jig.
- Unplug the bed power cord from the power source.
- 4. Raise the siderails.
- 5. Disconnect the actuator cable and cut, using cutting pliers, the cable ties holding it to the frame.
- Using the 5/16" socket wrench, remove the two screws (H) holding the retaining plate to the actuator support.
- 7. Remove the two pivot pins (I) holding the actuator to the support. To facilitate the removal of the pins, insert the small slotted head screwdriver into the opening at the end of the actuator and push out the pins.
- 8. Using the 1/2" wrench, remove the two bolts and washers (J) holding the molded nut support to the Hi-Lo lever. Remove the molded nut support and keep it for the replacement actuator.

Note

Make sure that the support and the molded nut holes are aligned before screwing in the bolts. If resistance is felt, it means that the holes are not aligned.

- 9. Remove the defective actuator.
- 10. Using the No. 2 Phillips screwdriver, remove the two screws holding together the two parts of the screw cover (optional) and keep it for the replacement actuator.
- 11. Reverse the above steps to install the replacement actuator. Take note of the following caution before hooking up the actuator to the Hi-Lo lever.





HI-LO ACTUATOR REPLACEMENT (CONTINUED)



CAUTION

The course of the replacement actuator must be adjusted prior to hooking it to the Hi-Lo lever. An improper adjustment can damage the Hi-Lo mechanism.

- 12. To adjust the replacement actuator, proceed as follows:
 - A. Once the replacement actuator cable is connected, plug the bed power cord and press the bed down control until the actuator stops. This will be the lower limit of the actuator course.
 - B. Link the actuator to the Hi-Lo lever.
 - C. The alignment jigs still in position, completely raise and lower the bed to ensure that the lower limit has been preserved following the actuator replacement.

TOROIDAL TRANSFORMER REPLACEMENT (INTERNATIONAL SERIES MODELS)

Tools Required:

- · No. 2 Phillips Screwdriver
- · Two 1/2" Wrenches

Procedure:

Note

Unless otherwise indicated, refer to figure 4.3C on page 42 for the following replacement procedure.

- 1. Completely raise the bed and apply the brakes.
- 2. Unplug the bed power cord from the wall socket.
- 3. Remove the head board.
- 4. Using two 1/2" wrenches, remove the two locknuts and bolts (K) holding the bumpers to their support.
- 5. Using a No. 2 Phillips screwdriver, remove the seven screws (L) holding the cover to the head casing.
- Remove the cables connected to the power connector after having carefully noted their position and remove the cover.
- 7. Disconnect the transformer cables.
- 8. Using the 1/2" wrench, remove the nut, washer and bolt (M) holding the transformer to the head casing.

Note

Do not over tighten the nut.

- 9. Reverse the above steps to install the replacement transformer.
- 10. Test all the bed electric controls for proper operation before returning the bed to service.

MOTOR CONTROL BOARD REPLACEMENT

Tools Required:

- No. 2 Phillips Screwdriver
- · Long-Nose Pliers
- · Cutting Pliers
- · 3/8" Wrench

Procedure:

Note

Unless otherwise indicated, refer to figure 4.3C on page 42 for the following replacement procedure.

- 1. Completely raise the bed and apply the brakes.
- 2. Unplug the bed power cord from the power source.
- 3. Remove the foot board.
- 4. Using the No. 2 Phillips screwdriver, remove the ten screws (A, figure 4.2A, page 31) holding the cover and the IV pole holders to the foot casing.
- 5. Lift up and remove the cover, taking care first to disconnect from the control board, the control panel cable (B, figure 4.2A, page 31) and, if applicable, the foot casing connector cable ((optional), C, figure 4.2A, page 31).
- 6. Properly ground yourself (see page 16).
- 7. Using cutting pliers, cut the cable ties holding together the cables.

Note

Carefully note the position and the grouping together of the cables before clipping the cable ties.

- 8. Remove all cables connected to the control board. Note their location so they will be connected properly to the replacement board. Refer to the connection diagram in the "Electrical Service Information" section for the connecting position of the cables on the motor control board.
- 9. Using the 3/8" wrench, remove the nut (N) holding the ground cable to the frame and remove the cable.
- 10. Using long-nose pliers, pinch the upper part of the stand-off pins (O) and gradually lift the board up and out.

Note

Verify that the DIP switches of the replacement control board are set as the ones of the defective board. They should be as follows:

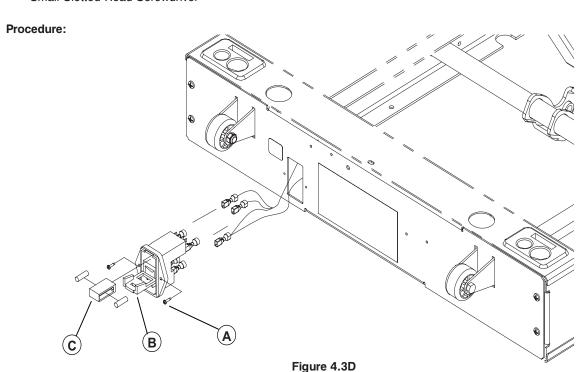
DIP switches no. 1: off; no. 2: off; no. 3: on; no. 4: on.

- 11. Using the 3/8" wrench and No. 2 Phillips screwdriver, remove the nut and screw (P) holding the ground cable to the board.
- 12. Keep the jumper (W1) that is located on the electronic board before replacing the board.
- 13. Reverse the above steps to install the replacement control board.
- 14. Test all the bed electric functions before returning the bed to service.

POWER CONNECTOR AND FUSE REPLACEMENT

Tools Required:

- · Two 1/2" Wrenches
- · No. 2 Phillips Screwdriver
- · No. 1 Phillips Screwdriver
- Small Slotted Head Screwdriver



Note

Fuses used in this bed, powered by the 120V electrical system, are of the fast acting type and their rating is 250V, 10A. For beds powered by other electrical system, see the "Specifications" section on page 7 for the fuse ratings.

For the replacement of a fuse, proceed with steps 8 to 10.

- 1. Completely raise the bed and apply the brakes.
- 2. Unplug the bed power cord from the power source.
- 3. Remove the foot board.
- 4. Using two 1/2" wrenches, remove the two nuts and bolts (K, figure 4.3C, page 42) holding the bumpers to their supports.
- 5. Using the No. 2 Phillips screwdriver, remove the seven screws (Q, figure 4.3C, page 42) holding the cover to the head casing. Remove all the cables connected to the power connector. Note their location so they will be connected correctly to the replacement power connector. Remove the cover and lay it on a work bench.
- 6. Using the No. 1 Phillips screwdriver, remove the two screws (A) holding the power connector to the cover.
- 7. Press the connector clips to remove it from its location.
- 8. Using the small slotted screwdriver, open and slide down the fuse compartment door (B).
- 9. Still using the small screwdriver, remove the fuse holder (C).
- 10. Remove the fuses from the fuse holder and keep them for the replacement power connector, taking care to check that they are still in good condition, or replace them if you are only proceeding with the replacement of the fuses.
- 11. Reverse the above steps to install the replacement power connector.
- 12. Turn the power switch on and check that the bed is powered before returning it to service.

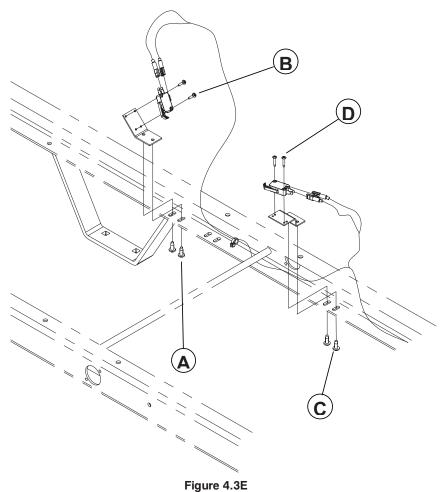
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AUTO CONTOUR MICRO SWITCH REPLACEMENT (OPTIONAL)

Tools Required:

- No. 2 Phillips Screwdriver
- · No. 1 Phillips Screwdriver

Procedure:



- i igaic -
- 2. Deactivate the Auto Contour function by pressing the Knee Gatch lockout switch at the foot end of the bed. The lockout switch LED will go off.
- 3. Completely raise the Fowler.
- 4. Unplug the bed power cord from the wall socket.

1. Completely raise the bed and apply the brakes.

Head Section Micro Switch

Note

This switch signals to the motor control board that the Knee Gatch must be lowered. The signal is sent during the lowering of the Fowler when the bed is in the Auto Contour position.

AUTO CONTOUR MICRO SWITCH REPLACEMENT (OPTIONAL) (CONTINUED)

- 5. Remove the cable wires from the switch. Note their location so they will be connected correctly to the replacement switch.
- 6. Using the No. 2 Phillips screwdriver, remove the two screws (A) holding the support to the frame and remove the support.

Note

The mounting position of the support may be adjusted thanks to the oblong holes present on the frame. The proper adjustment of the support is obtained when the switch blade is pushed in by the activator, located at the base of the head section, when the Fowler is in flat position.

- Using the No. 1 Phillips screwdriver, remove the two screws (B) holding the switch to the support and remove the defective switch.
- 8. Reverse the above steps to install the replacement micro switch.
- 9. Test the Auto Contour positioning for proper operation before returning the bed to service.

Thigh Section Micro Switch

Note

This switch signals to the motor control board that the Knee Gatch has reached the maximum elevation angle in the Auto Contour positioning context. As a consequence, the Knee Gatch stops raising.

- Remove the cable wires from the switch. Note their location so they will be connected correctly to the replacement switch.
- Using the No. 2 Phillips screwdriver, remove the two screws (C) holding the support to the frame and remove the support.

Note

The mounting position of the support may be adjusted thanks to the oblong holes present on the frame. The proper adjustment of the support is obtained when the switch blade is pushed in by the thigh section outer lever arm, located underneath the thigh section, when the thigh section is in flat position.

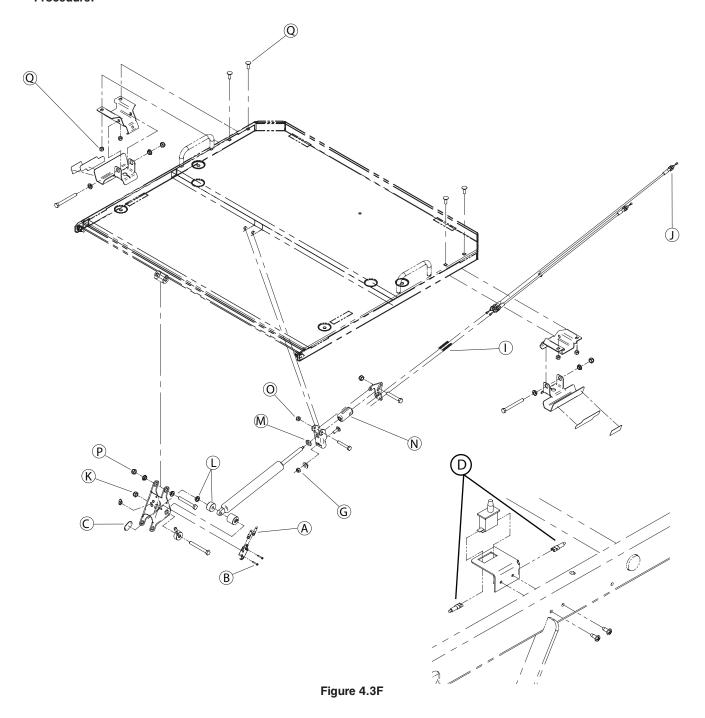
- 3. Using the No. 1 Phillips screwdriver, remove the two screws (D) holding the switch to the support.
- 4. Reverse the above steps to install the replacement micro switch.
- 5. Test the Auto Contour positioning for proper operation before returning the bed to service.

CPR MICRO SWITCH REPLACEMENT (OPTIONAL)

Tools Required:

- · Angle Indicator
- · No. 1 Phillips Screwdriver
- · No. 2 Phillips Screwdriver

Procedure:



CPR MICRO SWITCH REPLACEMENT (OPTIONAL) (CONTINUED)

Micro Switch Attached to the Head Section Lever

Note

This switch informs on the state of the Fowler actuator (engaged or disengaged) when the CPR emergency release is activated.

- 1. Completely raise the bed and apply the brakes.
- 2. Raise the head siderails.
- 3. Raise the head section at an angle of 45°.
- 4. Unplug the bed power cord from the power source.
- 5. Remove the wires (A) from the micro switch. Note the location of the wires so they will be connected correctly to the replacement micro switch.
- 6. Using the No. 1 Phillips screwdriver, remove the two screws (B) holding the micro switch to the head section lever. Keep the mounting plate (C). Remove the defective micro switch.
- 7. Reverse the above steps to install the replacement micro switch.
- Test the CPR emergency release before returning the bed to service.

Micro Switch Attached to the Frame

Note

This switch signals to the motor control board on one hand, that the resetting of the Fowler actuator may begin because the Fowler is completely lowered, and on the other hand, that the lowering to flat of the Knee Gatch may also begin.

- 1. Completely raise the Fowler.
- 2. Unplug the bed power cord from the power source.
- 3. Remove the cable wires (D) from the micro switch. Note the location of the wires so they will be connected correctly to the replacement micro switch.
- 4. Using the flat screwdriver, remove the micro switch from its support.
- 5. Reverse the above steps to install the replacement micro switch.
- Test the CPR emergency release before returning the bed to service.

CPR ACTIVATION CABLE REPLACEMENT (OPTIONAL)

Tools Required:

7/16" Wrench

Procedure:

Note

Unless otherwise indicated, refer to figure 4.3F on page 53 for the following replacement procedure.

- 1. Completely raise the bed and apply the brakes.
- 2. Completely raise the Fowler and remove the head board.
- 3. Unplug the bed power cord from the power source.
- 4. Using the 7/16" wrench, remove the nut, sleeve and bolt (G) holding both ends of the activation cable to the fixed lever.
- 5. Using the 7/16" wrench, remove the nut and washer (H) holding the defective cable jacket to the mobile lever. Remove the cable from the mobile lever and keep the spring (I). Try not to move the other cable from its position.
- 6. Unscrew completely the two locknuts (J) holding the defective cable to the CPR handle end. Remove the cable.
- 7. Reverse the above steps to install the replacement cable.

Note

Make sure there is no free play at the CPR handle once the replacement cable is installed.

8. Test the CPR emergency release before returning the bed to service.

CPR PNEUMATIC CYLINDER REPLACEMENT (OPTIONAL)

Tools Required:

- · Two 1/2" Wrenches
- 11/16" Wrench

Procedure:

Note

Unless otherwise indicated, refer to figure 4.3F on page 53 for the following replacement procedure.

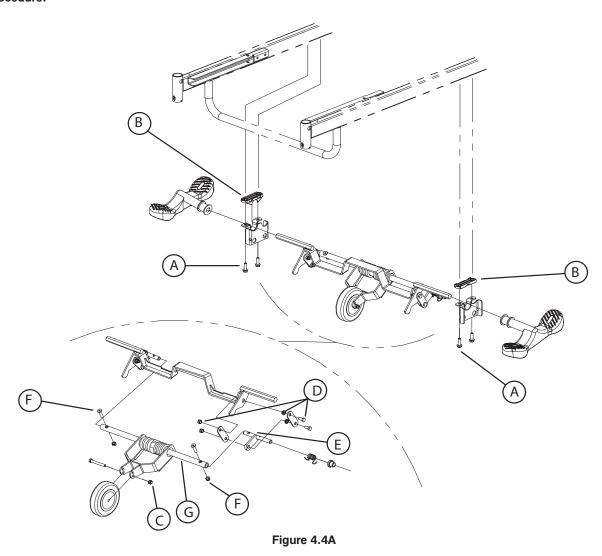
- 1. Completely raise the bed and apply the brakes.
- 2. Completely raise the head section.
- 3. Unplug the bed power cord from the power source.
- 4. Using two 1/2" wrenches, remove the nut (K) from the bolt holding the lower end of the pneumatic cylinder.
- 5. Partially remove the bolt until the lower end of the cylinder is free. Keep the shoulder spacer and sleeve (L). Disengage the lower end of the cylinder from the sleeve still in place.
- 6. Using the 11/16" wrench, loosen the locknut (M) and unscrew the cylinder completely from the end fitting (N). Note the location of the locknut before loosening it so the replacement cylinder will be properly screwed into the end fitting.
- 7. Reverse the above steps to install the replacement cylinder.
- 8. Test the CPR emergency release for proper operation before returning the bed to service.

BRAKE/STEER PEDAL REPLACEMENT

Tools Required:

- 1/2" Socket Wrench
- Rubber Mallet

Procedure:



- I. Completely raise the bed.
- 2. Unplug the bed power cord from the power source.
- 3. Position the brake/steer pedal to neutral.
- 4. Using the 1/2" socket wrench, remove the two bolts (A) holding the 5th wheel support (optional) or the lever support (F, figure 4.4B, (without 5th wheel option) page 61) on the side of the defective pedal and lay the support down. Keep the molded spacer (B).
- 5. Remove the pedal from the activation lever shaft. Use a rubber mallet if necessary.
- 6. Reverse the above steps to install the replacement pedal.

5TH WHEEL CASTER REPLACEMENT (OPTIONAL)

Tools Required:

· Two 1/2" Wrenches

Procedure:

Note

Unless otherwise indicated, refer to figure 4.4A on page 57 for the following replacement procedure.

- 1. Completely raise the bed.
- 2. Unplug the bed power cord from the power source.
- 3. Position the brake/steer pedal to neutral.
- 4. Using two 1/2" wrenches, remove the nut and bolt (C) holding the caster to the swing arm.
- 5. Reverse the above steps to install the replacement caster.

5TH WHEEL ASSEMBLY REPLACEMENT (OPTIONAL)

Tools Required:

- · 1/2" Wrench
- · 1/2" Socket Wrench
- Rubber Mallet

Procedure:

Note

Unless otherwise indicated, refer to figure 4.4A on page 57 for the following replacement procedure.

- 1. Completely raise the bed.
- 2. Unplug the bed power cord from the power source.
- 3. Position the brake/steer pedal to neutral.
- 4. Using the 1/2" wrench, remove the two nuts, washers, shoulder spacers and bolts (E1, figure 4.4B, page 61) linking the end of the brake rod to the locking levers, on the side of the pedals. If the optional four-wheel brake system is present on the bed, also remove the fasteners linking the end of the two other brake rods to the same locking levers.
- 5. Using the 1/2" socket wrench, remove the four bolts (A) holding both 5th wheel supports to the base. Keep the molded spacers (B). Remove the assembly.
- 6. Remove the two brake/steer pedals from the activation lever shafts. Use a rubber mallet if necessary.
- 7. Remove and keep the two locking levers (G, figure 4.4B, page 61).
- 8. Reverse the above steps to install the replacement 5th wheel assembly.
- 9. Test the 5th wheel for proper operation before returning the bed to service.

5TH WHEEL SWING ARM ASSEMBLY REPLACEMENT (OPTIONAL)

Tools Required:

- 1/2" Socket Wrench
- · Two 1/2" Wrenches
- 3/16" Allen Key

Procedure:

Note

Unless otherwise indicated, refer to figure 4.4A on page 57 for the following replacement procedure.

- 1. Completely raise the bed.
- 2. Unplug the bed power cord from the power source.
- 3. Position the brake/steer pedal to neutral.
- 4. Using the 1/2" socket wrench, remove the two bolts (A) holding the left or right 5th wheel support to the base. Lay the support down and keep the molded spacer (B).
- 5. Using two 1/2" wrenches, remove the nut, shoulder spacer and bolt (D) holding the torsion lever (E) to the lower part of the counter lever.
- 6. Using the 1/2" wrench and 3/16" Allen key, remove the two nuts and Allen screws (F) holding the torsion levers (E) to both ends of the torque shaft (G).

Note

At reassembly, screw down the Allen screws before installing the nuts.

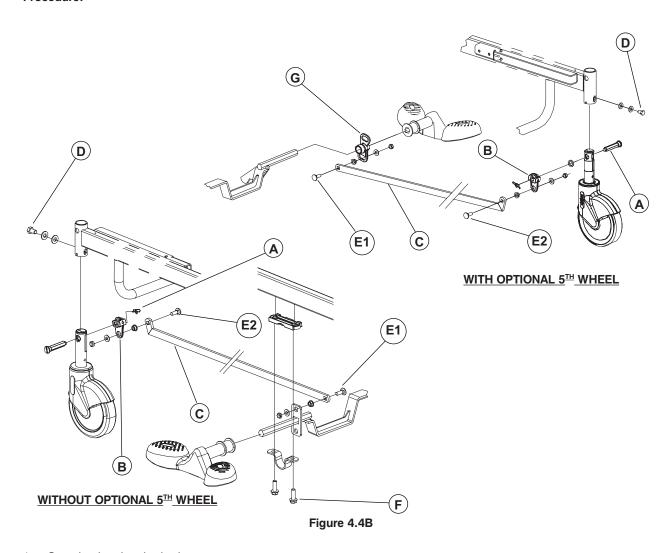
- 7. Disengage the swing arm assembly from the torsion levers and remove it.
- 8. Using two 1/2" wrenches, remove the nut and bolt (C) holding the caster to the swing arm and keep it for the replacement swing arm assembly.
- 9. Reverse the above steps to install the replacement swing arm assembly.
- 10. Test the 5th wheel for proper operation before returning the bed to service.

BED CASTER REPLACEMENT

Tools Required:

- · Jack Stand
- · Long Nose Pliers
- 1/2" Wrench

Procedure:



- 1. Completely raise the bed.
- 2. Position the brake/steer to neutral.
- 3. Install a jack stand under the frame near the defective caster.
- 4. If present, remove the wheel cover (optional).
- 5. Lower the bed until the caster is six inches off the ground.
- 6. Unplug the bed power cord from the power source.
- 7. Remove, using long-nose pliers, the rue ring, washer and locking axle (A) linking the caster shaft to the locking lever (B) and the brake rod (C) if the caster is part of the braking system.

BED CASTER REPLACEMENT (CONTINUED)

Note

The shaft of a caster that is part of the braking mechanism must be properly oriented before mounting it to the base. The opposite illustration shows the side of the shaft that should be facing the inside of the bed: it is the side showing the largest opening below the cam in neutral position.

8. Using the 1/2" wrench, remove the bolt and washers (D) holding the caster to the base.



Note

Before completely tightening the bolt (D), make sure that the caster shaft is completely inserted into the mounting socket.

- 9. Reverse the above steps to install the replacement caster.
- 10. If the replacement caster is part of the brake mechanism, apply the brakes and check that the caster is locked before returning the bed to service.

BRAKE ROD REPLACEMENT

Tools Required:

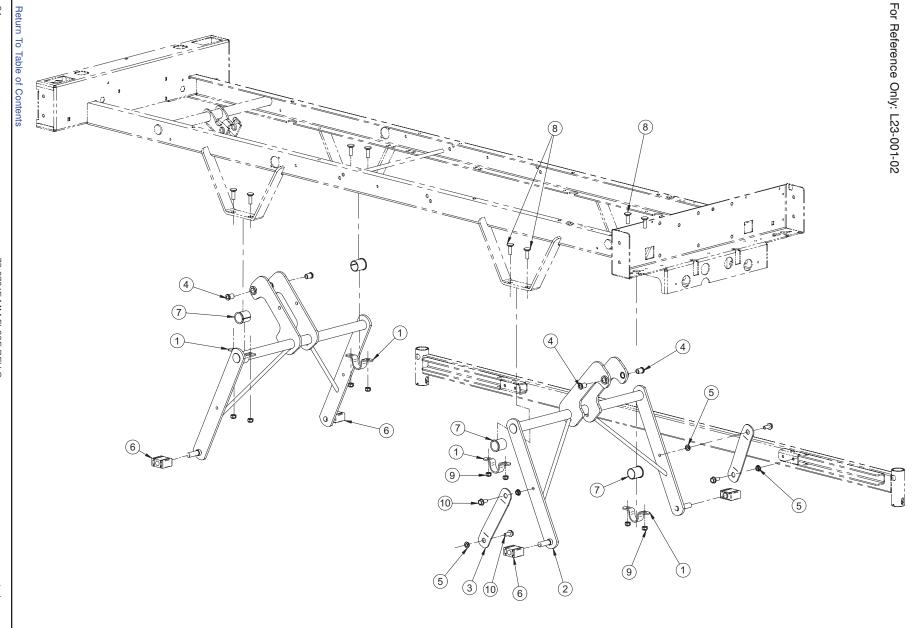
• 1/2" Wrench

Procedure:

Note

Unless otherwise indicated, refer to figure 4.4B on page 61 for the following replacement procedure.

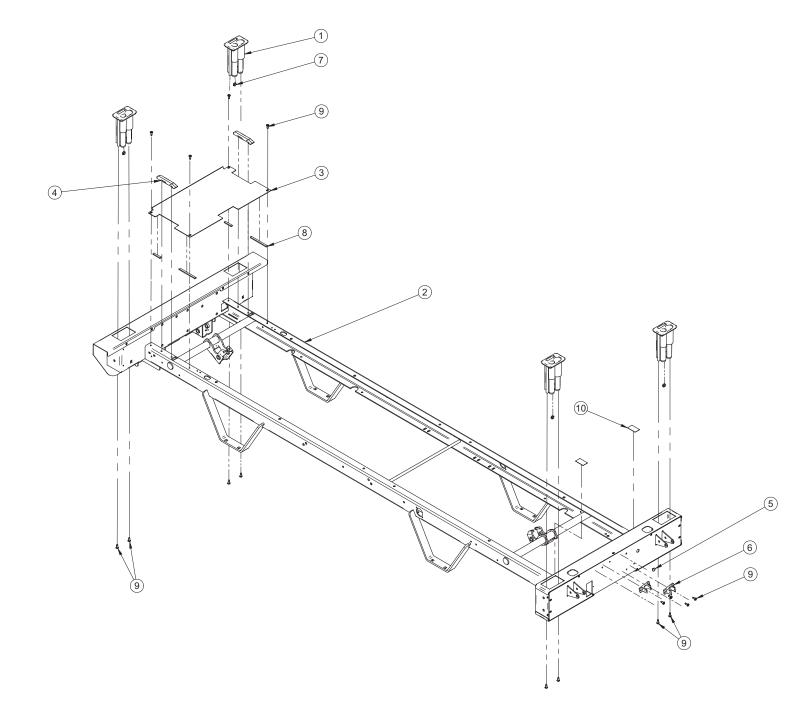
- 1. Completely raise the bed.
- 2. Using a 1/2" wrench, remove the nut, shoulder spacer, washer and bolt (E1, E2) holding each end of the linking rod.
- 3. Remove the defective linking rod.
- 4. Reverse the above steps to install the replacement linking rod.
- 5. Check the braking mechanism before returning the bed to service.



Hi-Lo Mechanism - L23-001

For Reference Only: L23-001G-03

Item	Part No.	Part Name	Qty.
1	14662Z	Lever Clamp	4
2	23-0234G	Hi-Lo Lever S.A.	2
3	25-0281G	Stabilizer	2
4	25-0521	Spacer	4
5	QDF17-0020	Shoulder Spacer Diameter	
		5/16" x 0.210"	4
6	QPN-1310P009	Nylon Glide	4
7	QPN-18121	Molded Frame Bushing	4
8	VB35A1O32	Carriage Bolt (Short Neck)	
		5/16-18-1" z.p.	8
9	VE30A1O	Nylon Hexagonal Locknut	
		5/16-18 UNC z.p.	8
10	VVB4A1O24	Bolt 5/16" - 18 X 3/4"	
		Thread Rolling	4

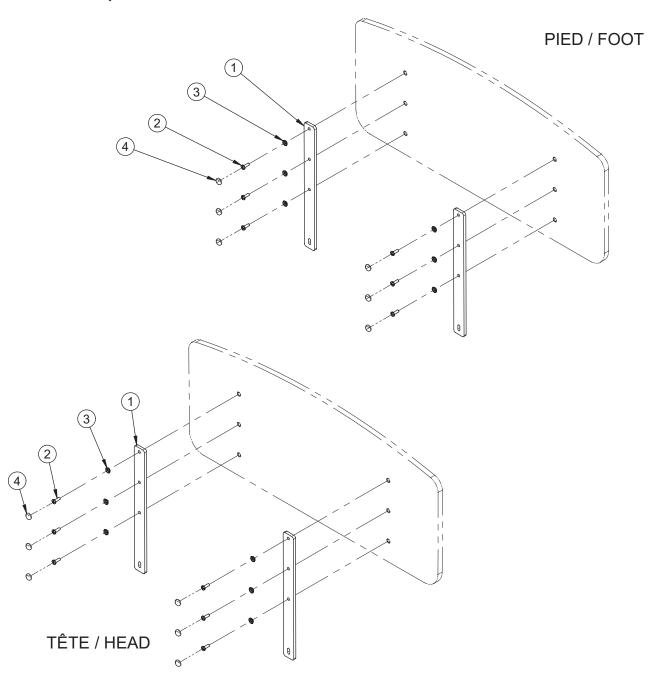


Frame - L23-003

For Reference Only: L23-003G-09

Item	Part No.	Part Name	Qty.
1	QP17-0121-07	IV Pole Holder	4
2	23-0043G	Frame S.A.	1
3	23-0167G	Foot Cover Plate	1
4	QP23-0257	Mattress Support Glide	2
5	QPCK3001	Plug Bumper #RB-143	1
6	QPVG1801	Black ABS Rod Support	
		3/4" Diameter	2
7	VE20A1N	Hexagonal Locknut 1/4-20 z.p.	4
8	QDF132X	"Perma-Stick" Anti-Cold Stopper	0.75
9	VV83A9G16	Tapping Screw Pan Phillips	
		Type B #10 x 1/2" z.p.	16
10	QE71-1069	Frame Protector Sticker	2

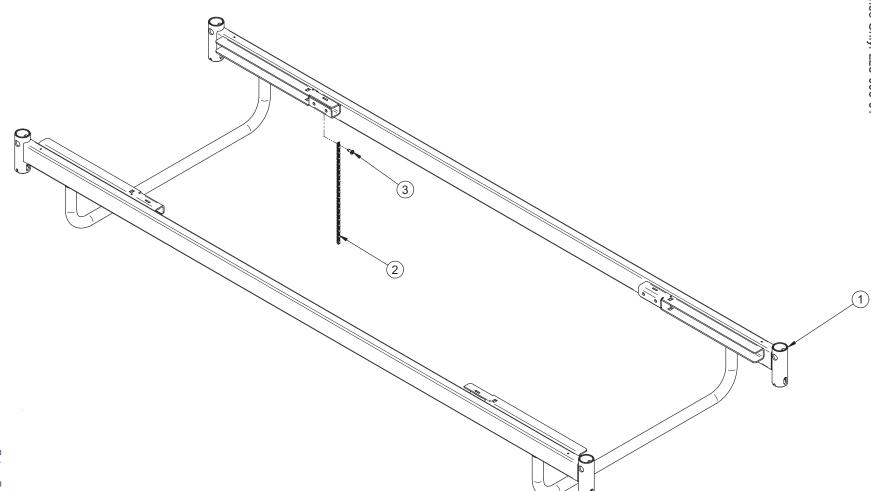
For Reference Only: L23-005-03



For Reference Only: L23-005G-05

Item	Part No.	Part Name	Qty.
1	23-0124G	Post	4
2	VV33A1N24-S	Machine Screw Pan Head	
		1/4-20 x 3/4" Scotch Grip	12
3	QPPF1521	Metal Washer 1/4" Diameter	12
4	QPPF1514-1	White Plastic Cap	12

For Reference Only: L23-006-01



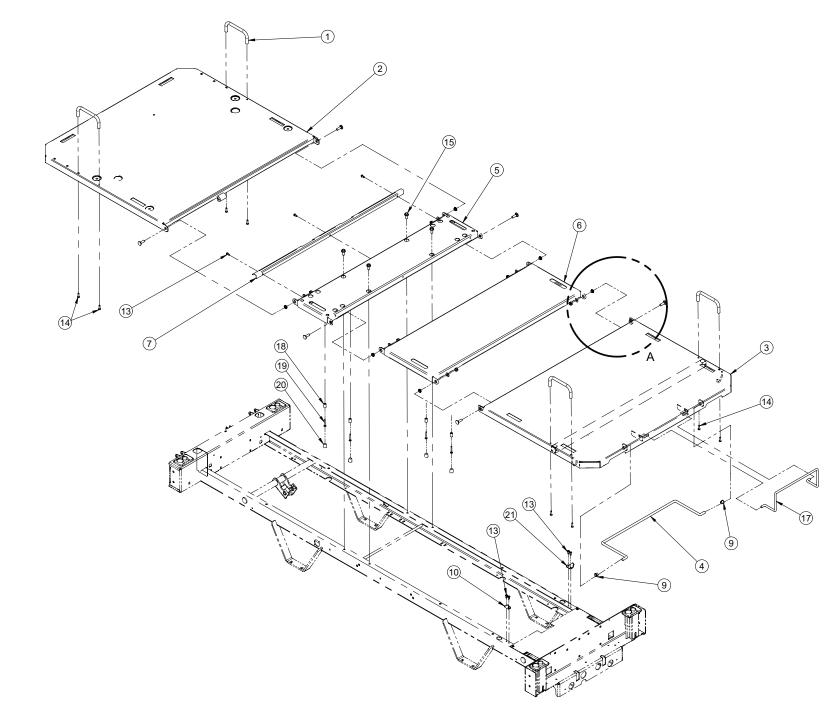
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Base - L23-006

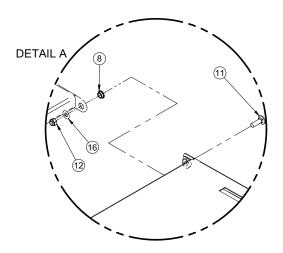
For Reference Only: L23-006G-02

Item	Part No.	Part Name	Qty.
1	25-0108G	Base S.A.	1
2	28-0469	Ground Chain	1
3	VV83A9G16	Tapping Screw Pan Type B	
		Phillips #10 x 1/2" z.p.	1

For Reference Only: L23-016G-00



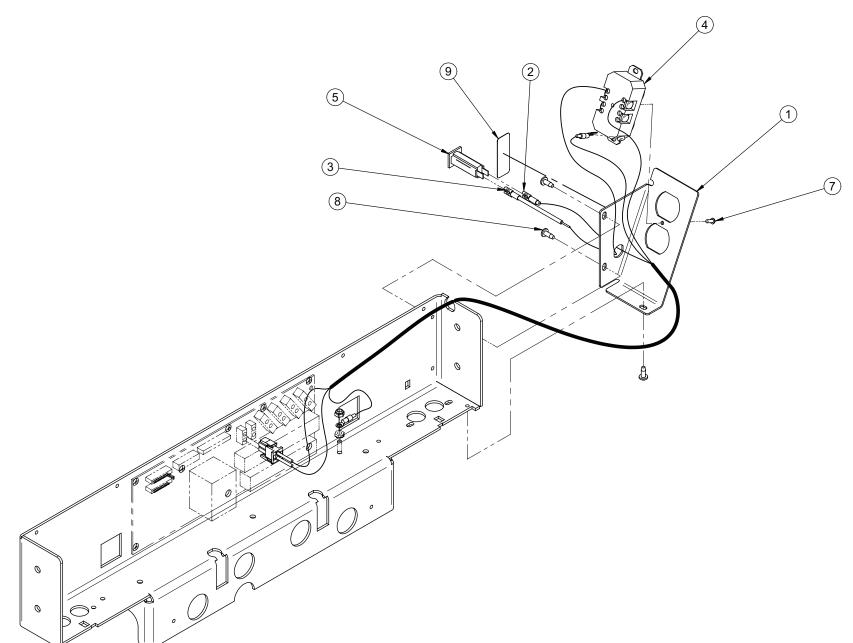
Mattress Support - L23-016



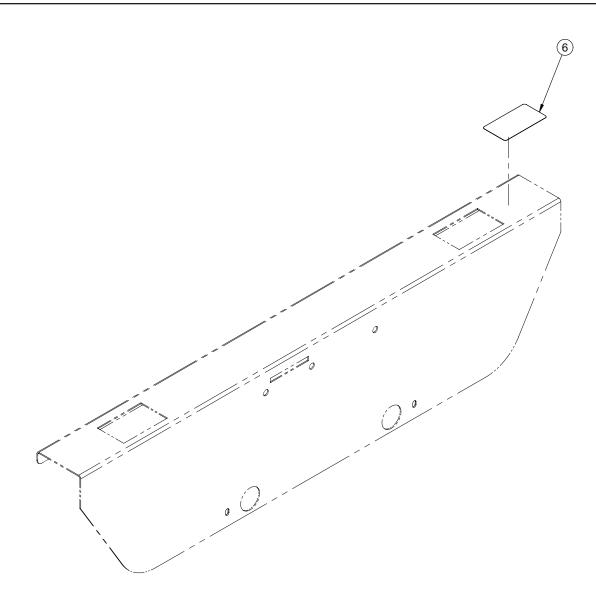
For Reference Only: L23-016G-01

Item	Part No.	Part Name	Qty.
1	QP14034-07	Mattress Retainer	4
2	23-0091G	Head Section S.A.	1
3	23-0705G	Foot Section S.A.	1
4	23-0704G	Foot Prop Rod S.A.	1
5	23-0640G	Seat Section S.A.	1
6	25-0634G	Thigh Section S.A.	1
7	25-0274G	Protective Bracket	1
8	QDF17-0020	Shoulder Spacer Diameter	
		5/16" x 0.210"	6
9	QPNI2404	Nylon Shoulder Bushing 3/8" ID	2
10	28-0461Z	Right Hook	1
11	VB35A1O32	Carriage Bolt (Short Neck)	
		5/16-18-1" Grade 5 z.p.	6
12	VE30A1O	Nylon Hexagonal Locknut 5/16-18	
		UNC z.p.	6
13	VV83A9G16	Tapping Screw Pan Phillips	
		Type B #10 x 1/2" z.p.	7
14	VV83A9G24	Tapping Screw Pan Phillips	
		Type B #10 x 3/4" z.p.	8
15	VVB4A1O24	Bolt 5/16" - 18 X 3/4"	
		Thread Rolling	4
16	VW10A10	Flat Washer 5/16" SAE z.p.	6
17	17-0211G	Foot End Mattress Retainer	1
18	23-0368Z	Centre Section Stop	4
19	VV83A9G36	Type B Screw, #10 X 1-1/4	4
20	QPCF1002	Rubber Cap	4
21	28-0468Z	Left Hook	1

For Reference Only: OL230010-02



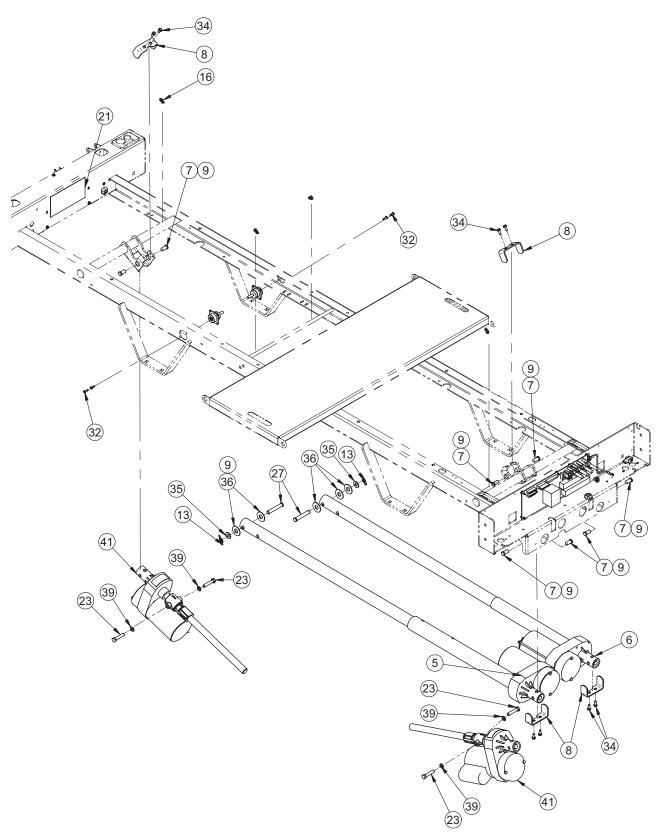
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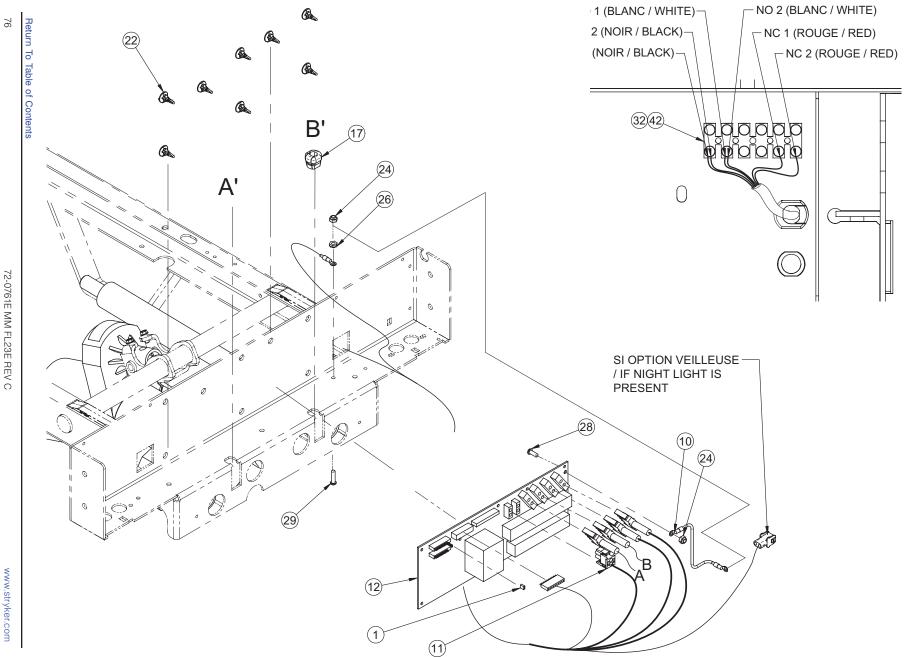


For Reference Only: OL230010G-03

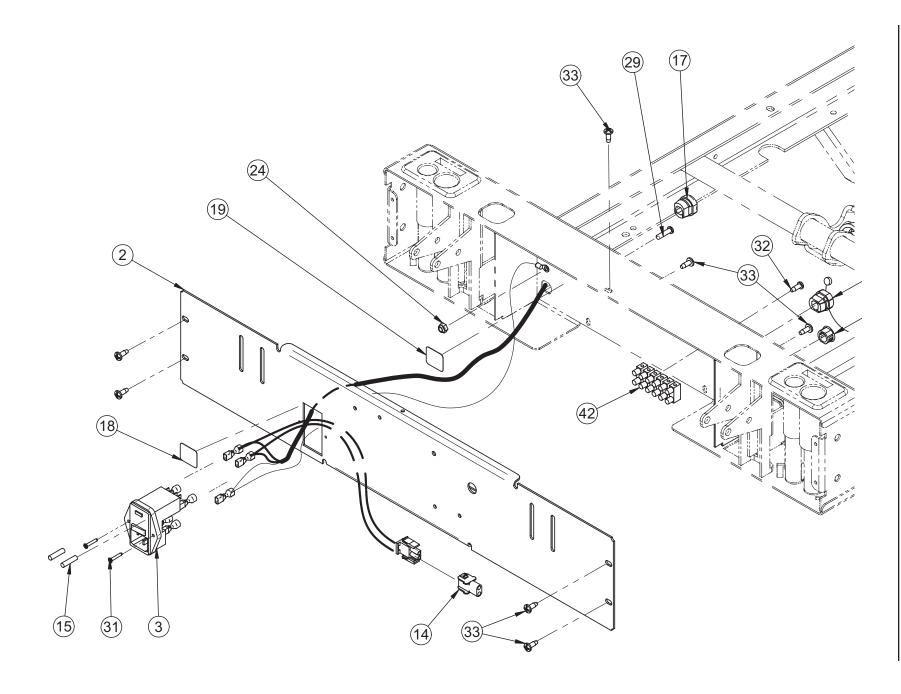
Item	Part No.	Part Name	Qty.
1	23-0219G	Auxiliary Power Casing	1
2	QDF17-0199	120V Auxiliary Plug Wire	1
3	QDF17-0223	Circuit Breaker Wire	1
4	QDF8024	8200-W Leviton Double Socket	1
5	QDF9025	5A Circuit Breaker	1
6	QE71-0742T	Power Source Label	1
7	VV37A1C12	Machine Screw Truss Phillips	
		#6-32 x 3/8" z.p.	1
8	VV83A9G16	Type B Pan Phillips Tapping	
		Screw #10 x 1/2" z.p.	3
9	QE71-0225-T	Sticker - Circuit Breaker	1

For Reference Only: OL230015-13



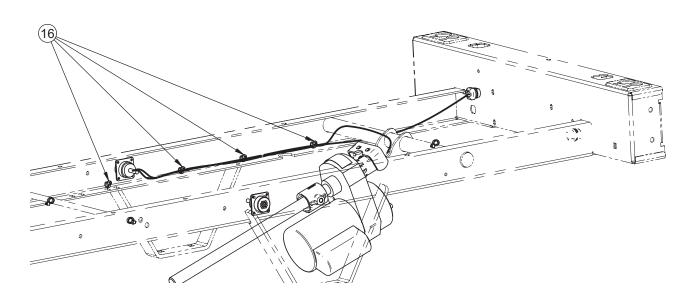


120V Electric System - OL230015



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120V Electric System - OL230015



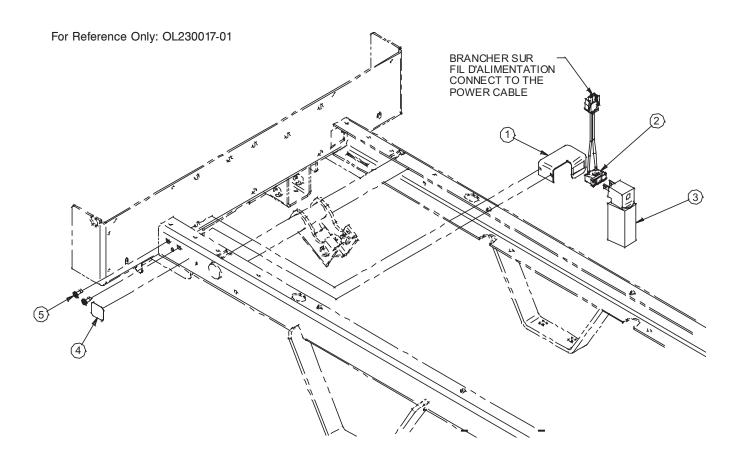
For Reference Only: OL230015G-12

Item	Part No.	Part Name	Qty.
1	QDF8047	PC Board Jumper	1
2	23-0423G	Head Casing Cover	1
3	23-0267	Power Connector S.A.	1
5	23-0335G	Hubble Head Actuator	1
6	23-0336	Hubble Thigh Actuator	1
7	25-0250Z	Actuator Pivot	8
8	25-0251Z	Head/Thigh Actuator Support Cover	4
9	M0019	OG2 Petro Canada Grease	.0150
10	QDF17-0138	PC Board Ground Wire	1
11	QDF23-0574	FL23E Siderail Control Cable S.A.	1
12	QDF23-0315	Control Board	1
13	QDF7878	Rue Ring Cotter Diameter	•
		3/8" z.p.	2
14	QDF8042	«AMP» Cap Housing # 1-480699-0	1
15	QDF8078	10A, 250V Long Fast Action Fuse	2
16	QDF9518	Nylon Ty-Rap Black (0.143 X 8")	8
17	QDF9541	Strain Relief SR 6P3-4	2
18	QE71-0571	Sticker - 10A, 250V Fuses	1
19	QE71-0572	Sticker - Ground	1
21	QE71-0753-F	120V CSA Sticker	1
22	QP23-0735	Control Board Stand-off Pin	8
23	VB15A1O40	Hexagonal Bolt 5/16-18 X 1 1/2"	
		Grade 5 z.p.	4
24	VE30A0G	Nylon Hexagonal Locknut	
		#10-32 z.p.	3
26	VE80A0G	"K-Lok" Locknut #10-32 z.p.	1
27	VG50B1250	Clevis Pin Diameter	
		3/8" x 2-1/4" z.p.	2
28	VV33A0G16	Machine Screw Pan Phillips	
		#10-32 x 1/2" z.p.	1

120V Electric System - OL230015

Item	Part No.	Part Name	Qty.
29	VV33A0G24	Machine Screw Phillips Pan Head #10-32 x 3/4" z.p.	2
31	VV41A1A20	Phillips Countersunk Screw Type F #4-40 x 5/8" zp	2
32	VV83A9E16	Tapping Screw Pan Phillips Type B #8 x 1/2" z.p.	5
33	VV83A9G16	Tapping Screw Pan Phillips Type B #10 x 1/2" z.p.	7
34	VV84A1H46	Flanged Hexagonal Head Tapping Screw #12 X 1/2 Type B z.p.	8
35	VW10A12	Washer 3/8" SAE z.p.	2
36	VW10C173602	Nylon Washer 1/2" Ins. Dia.	
		x 1 1/4" OU	5
39	VW20A10	Spring Washer 5/16" Diameter	4
40	QPPF1518	Plug Double "D" Diameter 5/8"	1
41	23-0702	Hubble Hi-Lo Actuator	2
42	QDF9012	Terminal Strip (6 x 2)	1
43	QPNC0606	Strain Relief Bushing	1

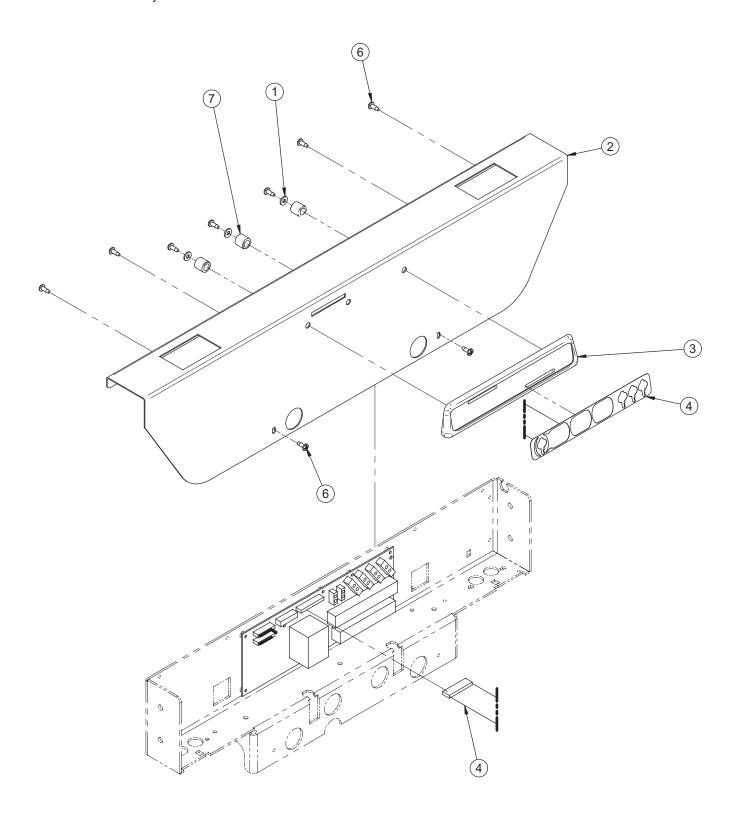
Night Light - OL230017



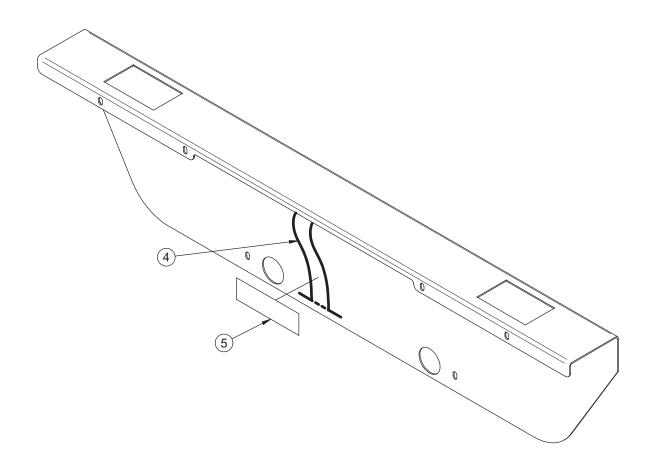
For Reference Only: OL230017-02

Item	Part No.	Part Name	Qty.
1	25-0273Z	Night Light Support	1
2	QDF18825	Interlocking Outlet	1
3	QDF9539	Night Light	1
4	QE71-0712	Sticker - Night Light	1
5	VV83A9G16	Tapping Screw Pan Phillips	
		Type B #10 x 1/2" z.p.	2

For Reference Only: OL230026-04

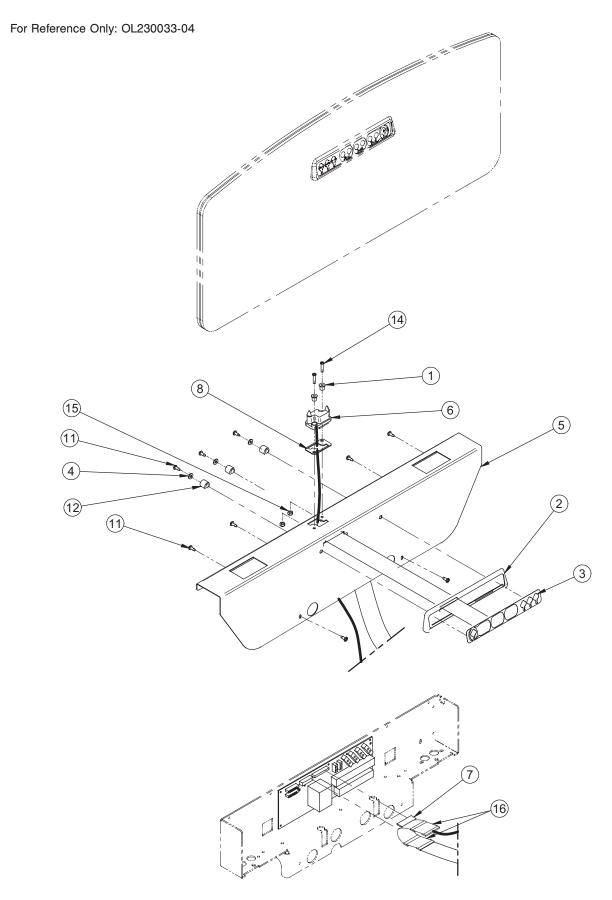


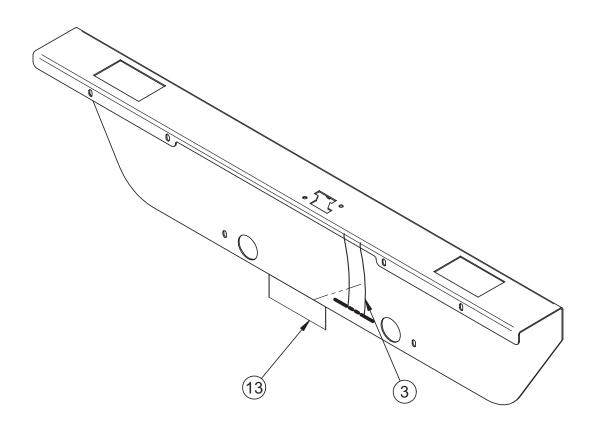
Foot End Control Panel - OL230026



For Reference Only: OL230026G-05

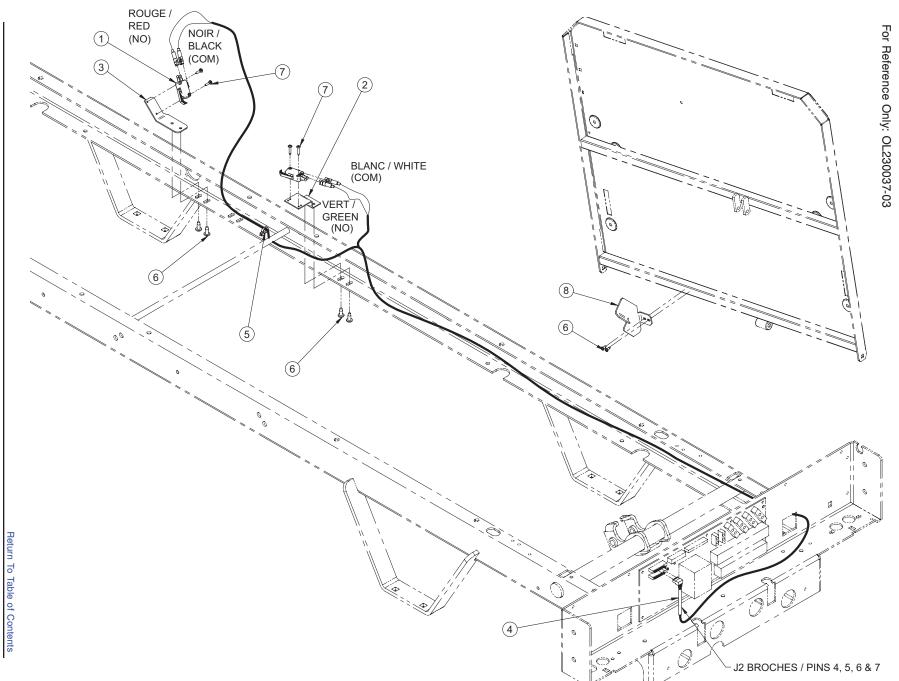
Item	Part No.	Part Name	Qty.
1	VW10A06	Flat Washer #10 z.p.	3
2	23-0119G	Foot Casing Cover	1
3	QP17-0127-07	Nurse Control Board	1
4	QDF23-0693	Nurse Control Membrane	1
5	QDF7826	3M Adhesive Tape #950 x 1"	.1250
6	VV83A9G16	Tapping Screw Pan Phillips	
		Type B #10 x 1/2" z.p.	9
7	VW60C201320	Nylon Spacer	
		5/8" x .386" x 39/64"	3

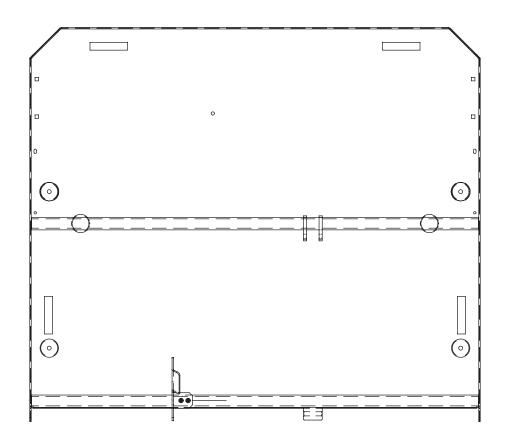




For Reference Only: OL230033G-05

Item	Part No.	Part Name	Qty.
1	17-0014Z	Shoulder Sleeve	2
2	QP17-0127-07	Nurse Control Board	1
3	QDF23-0693	Nurse Control Membrane	1
4	VW10A06	Flat Washer #10 z.p.	3
5	23-0261G	Foot Casing Cover with Connector	1
6	QDF17-0141	PC-Board/Connector Cable	1
7	QDF23-0279	Y Cable S.A.	1
8	QPN-17-0011	Seal	1
11	VV83A9G16	Tapping Screw Pan Phillips	
		Type B #10 x 1/2" z.p.	9
12	VW60C201320	Nylon Spacer 5/8" x .386" x 39/64"	3
13	QDF7826	3M Adhesive Tape #950 x 1"	.2500
14	VV33A1G28	Machine Screw Pan Phillips	
		#10-24 x 7/8" z.p.	2
15	VE30A1G	Nylon Hexagonal Locknut	
		#10-24 z.p.	2
16	QDF2053	Red PVC Tape	.5000

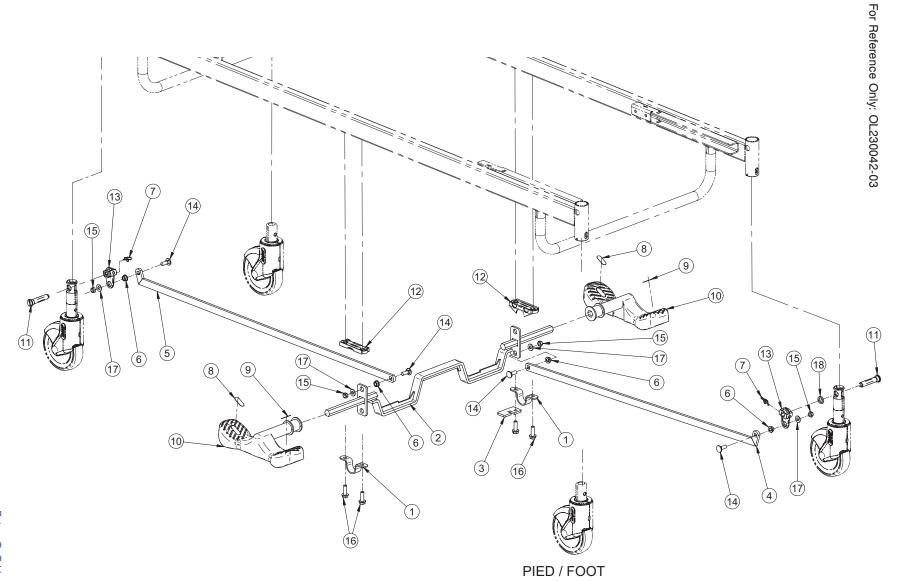




For Reference Only: OL230037-04

Item	Part No.	Part Name	Qty.
1	1325P003	Micro Switch	2
2	23-0164Z	Micro Switch Support	1
3	23-0451Z	Micro Switch Support	1
4	QDF13-0251	Auto Contour Positionning	
		Connection Cable	1
5	QDF9518	Nylon Ty-Rap Black (0.143 X 8")	1
6	VV83A9G16	Tapping Screw Pan Phillips	
		Type B #10 x 1/2" z.p.	6
7	VV87A9A20	Tapping Screw Truss Phillips	
		Socket #4 x 5/8" Type B z.p	4
8	23-0452G	Angle Sensor Arm	1

Brake Mechanism without 5th Wheel - OL230042



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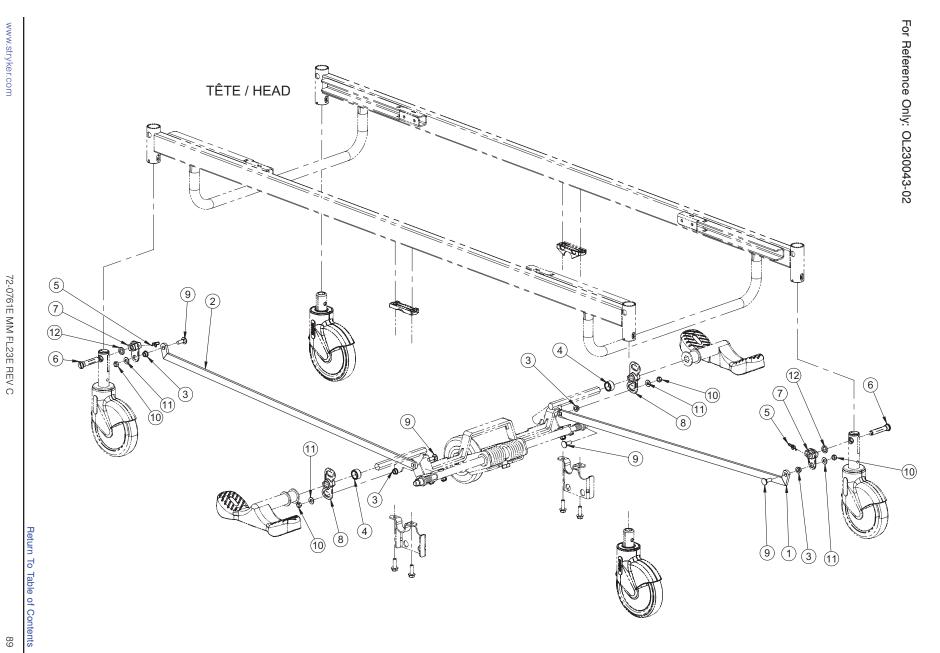
www.stryker.com

Brake Mechanism without 5th Wheel - OL230042

For Reference Only: OL230042G-03

Item	Part No.	Part Name	Qty.
1	14662Z	Lever Clamp	2
2	23-0327G	Brake Lever S.A.	1
3	23-0333Z	Steer Stop	1
4	25-0291G	Linking Rod - Foot S.A.	1
5	25-0292G	Linking Rod - Head S.A.	1
6	25-0340	5/16 X 3/16 Spacer	4
7	QDF7878	Rue Ring Cotter Diameter	
		3/8" z.p.	2
8	QE71-0496	5 th Wheel Green Sticker	2
9	QE71-0511	Brake Sticker	2
10	QP23-0627-11	Pedal	2
11	QPA23-0233	Locking Axle	2
12	QPA25-0312	Molded Spacer	2
13	QPA25-0411	Brake Lever	2
14	VB35A1028FT	Long Neck Carriage Bolt	
		5/16 - 18 X 7-8" Grade 5, z.p.	4
15	VE79A1O	UNC Grade C ESNA	
		Nut 5/16 - 18	4
16	VVB4A1O32	Bolt 5/16" - 18 X 1"	
		Thread Rolling	4
17	VW10A10	Flat Washer 5/16" SAE z.p.	4
18	VW10C162404	Nylon Washer 1/2" Int. x	
		3/4" Ext. x 1/8" ep.	2

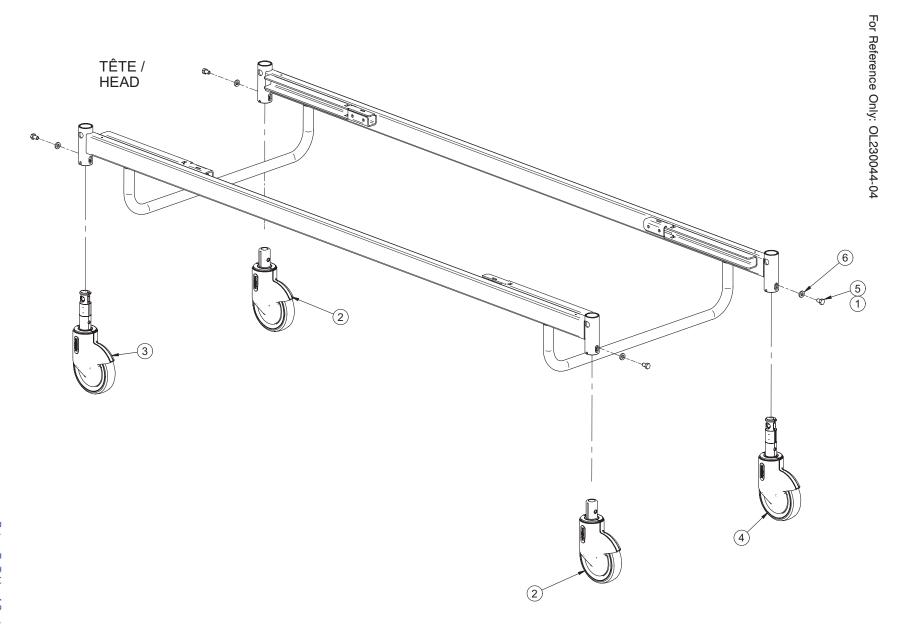
Brake Mechanism with 5th Wheel - OL230043



Brake Mechanism with 5th Wheel - OL230043

For Reference Only: OL230043G-02

Item	Part No.	Part Name	Qty.
1	25-0291G	Linking Rod - Foot S.A.	1
2	25-0292G	Linking Rod - Head S.A.	1
3	25-0340	5/16 X 3/16 Spacer	4
4	25-0451	Lever Spacer	2
5	QDF7878	Rue Ring Cotter Diameter	
		3/8" z.p.	2
6	QPA23-0233	Locking Axle	2
7	QPA25-0411	Brake Lever	2
8	QPA25-0427	Locking Lever	2
9	VB35A1O28FT	Long Neck Carriage Bolt	
		5/16 - 18 X 7-8" Grade 5, z.p.	4
10	VE79A1O	UNC Grade C ESNA Nut 5/16 - 18	4
11	VW10A10	Flat Washer 5/16" SAE z.p.	4
12	VW10C162404	Nylon Washer 1/2" Int. x	
		3/4" Ext. x 1/8" ep.	2

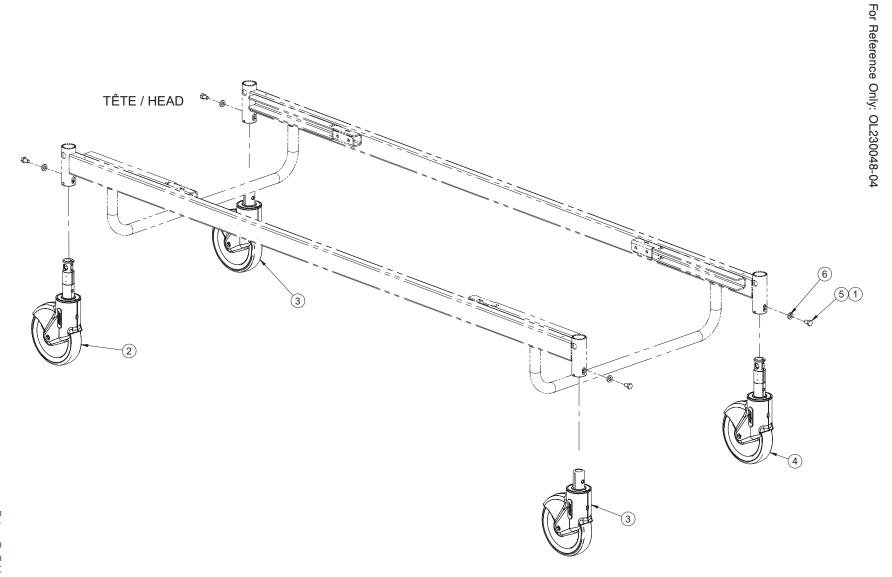


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5" Casters without 5th Wheel - OL230044

For Reference Only: OL230044-03

Item	Part No.	Part Name	Qty.
1	M0008	Threadlocker -	
		Medium Strength (Blue)	.0500
2	RD25039107	5" Swivel Caster	2
3	RD25049407	5" Locking Caster	1
4	RD25049507	5" Steer Caster	1
5	VB15A1O16	Hexagonal Bolt 5/16-18 x 1/2"	
		Grade 5, z.p	4
6	VW10A1120	Flat Washer 5/16" SAE z.p.	4

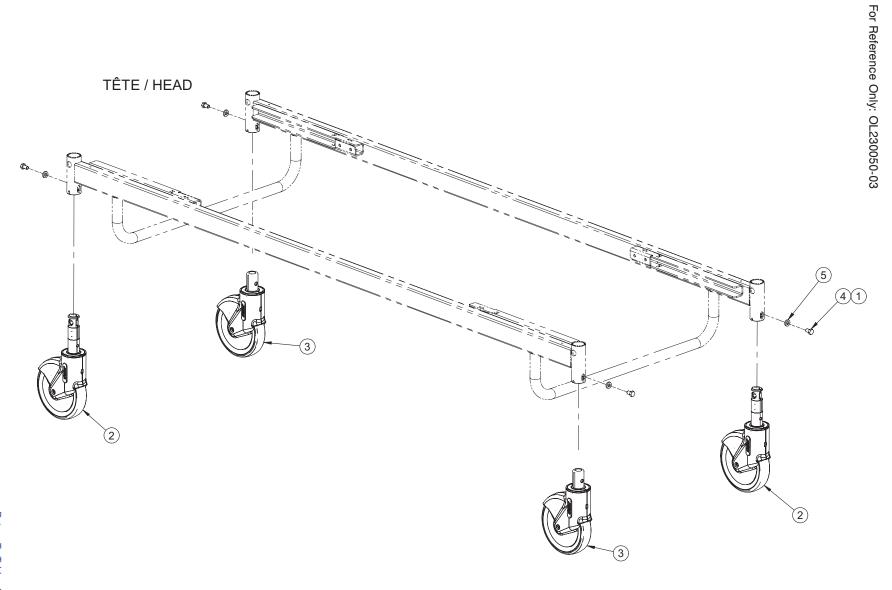


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6" Casters without 5th Wheel - OL230048

For Reference Only: OL230048-04

Item	Part No.	Part Name	Qty.
1	M0008	Threadlocker -	
		Medium Strength (Blue)	.0500
2	RD25038807	6" Locking Caster	1
3	RD25049307	6" Swivel Caster	2
4	RD25049607	6" Steer Caster	1
5	VB15A1O16	Hexagonal Bolt 5/16-18 x 1/2"	
		Grade 5, z.p.	4
6	VW10A1120	Flat Washer 5/16" SAE z.p.	4



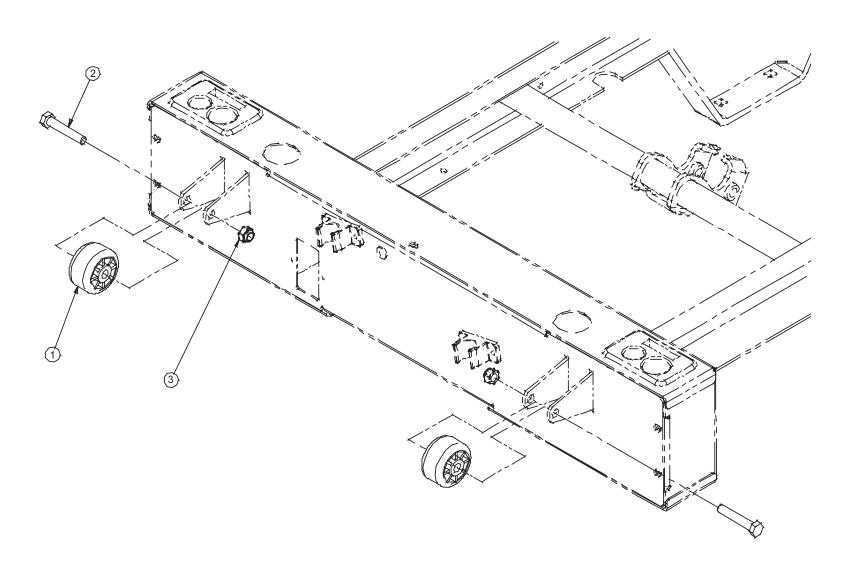
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6" Casters with 5th Wheel - OL230050

For Reference Only: OL230050-05

Item	Part No.	Part Name	Qty.
1	M0008	Threadlocker -	
		Medium Strength (Blue)	.0500
2	RD25038807	6" Locking Caster	2
3	RD25049307	6" Swivel Caster	2
4	VB15A1O16	Hexagonal Bolt 5/16-18 x 1/2"	
		Grade 5, z.p.	4
5	VW10A1120	Flat Washer 5/16" SAE z.p.	4

For Reference Only: OL230052-01



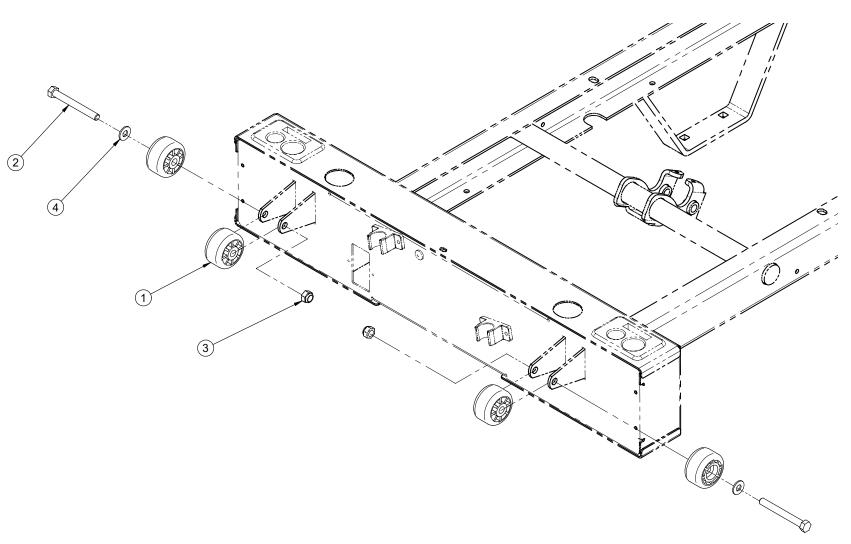
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Bumpers - One Rigid Roller - OL230052

For Reference Only: OL230052G-03

Item	Part No.	Part Name	Qty.
1	QPN-14-0705	Roller	2
2	VB15A1O44	Hexagonal Bolt 5/16-18 x 1 3/4"	
		Grade 5, z.p.	2
3	VE30A1O	Nylon Hexagonal Locknut 5/16-18	
		UNC z.p.	2

For Reference Only: OL230053-00

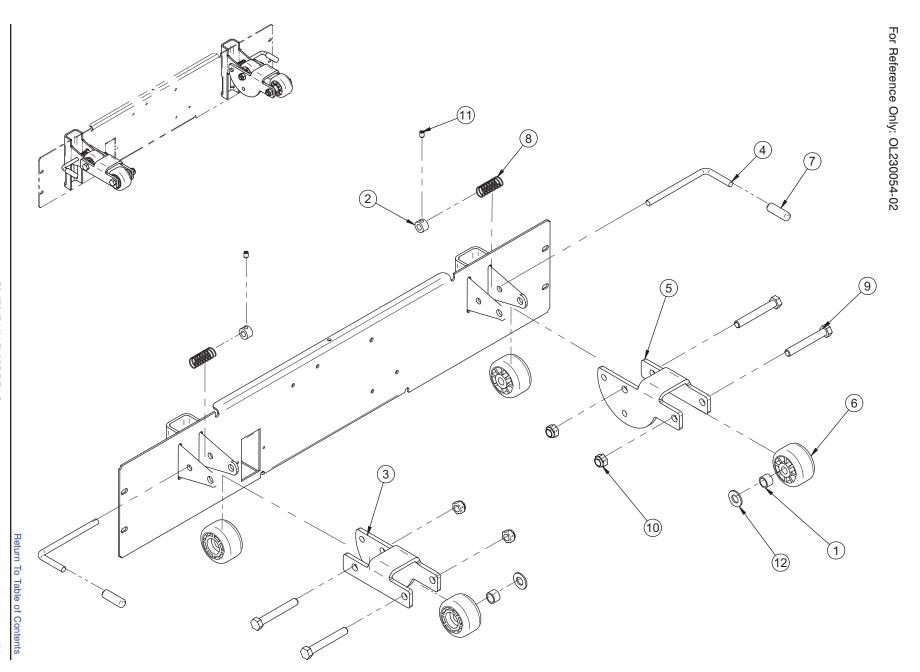


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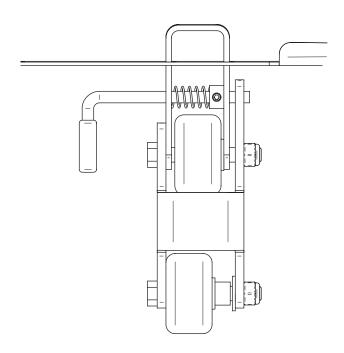
Bumpers - Two Soft Rollers - OL230053

For Reference Only: OL230053G-02

Item	Part No.	Part Name	Qty.
1	QPC-14-0321	Bumper Roller 1-3/4" Diameter	4
2	VB15A1O54	Hexagonal Bolt 5/16-18 unc x	
		2-3/4" Grade 5, z.p.	2
3	VE30A1O	Nylon Hexagonal Locknut	
		5/16-18 UNC z.p.	2
4	VW10A10	Flat Washer 5/16" SAE z.p.	2



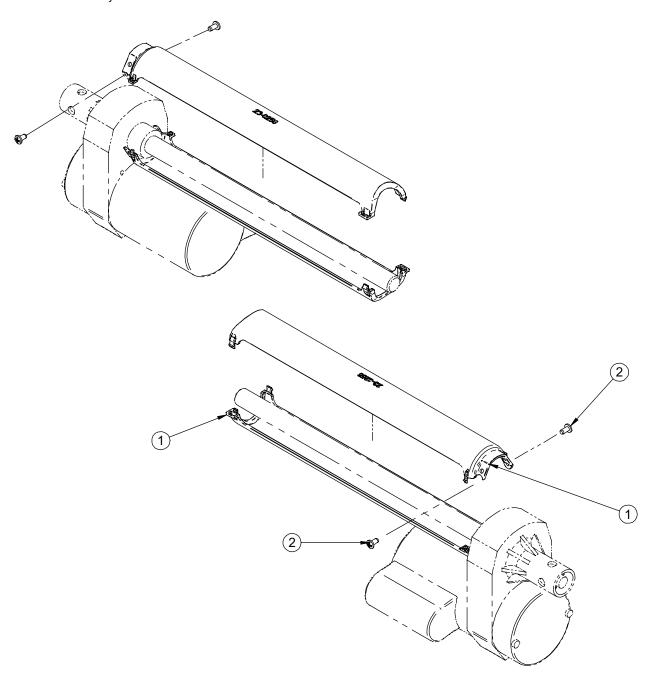
Adjustable Bumpers - OL230054



For Reference Only: OL230054G-03

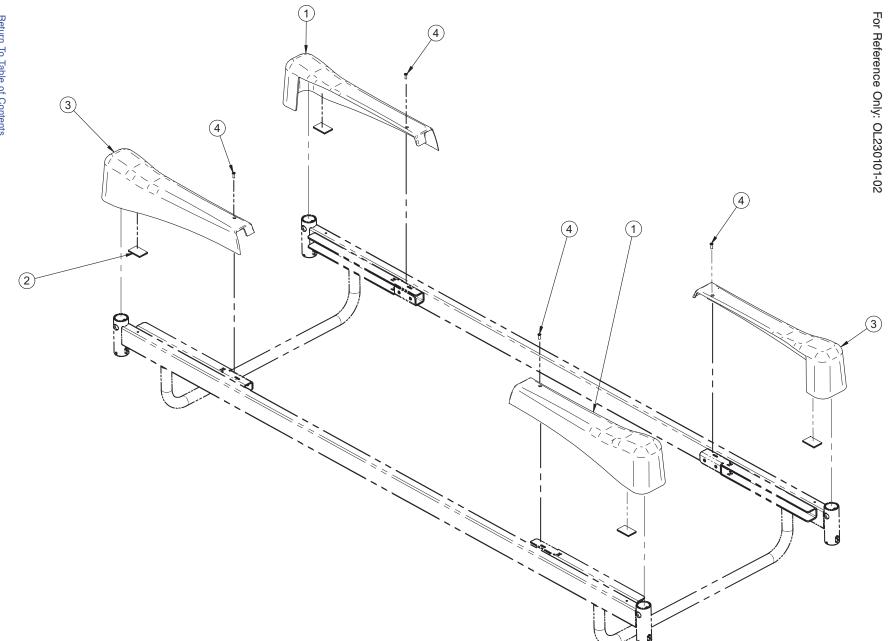
Item	Part No.	Part Name	Qty.
1	14403Z	Spacer	2
2	19-0478Z	Adjustable Stopper	2
3	23-0347G	Left Pivot Plate	1
4	23-0348Z	Lock	2
5	23-0349G	Right Pivot Plate	1
6	QPN-14-0705	Roller	4
7	QPVA0012	Vinyl Cap Diameter	
		1/4" x 1 1/4"	2
8	QRC18642	Release Mechanism Spring z.p.	2
9	VB15A1O50	Hexagonal Bolt 5/16-18 x 2 1/4"	
		Grade 5, z.p.	4
10	VE30A1O	Nylon Hexagonal Locknut 5/16-18	
		UNC z.p.	4
11	VV60A0G08-S	Hexagonal Socket Set Screw	
		10-32 x 1/4" Scotch Grip	2
12	VW10C122402	Nylon Washer 3/8" Ins.	
		Diameter x 1/16"	2

For Reference Only: OL230091-00



For Reference Only: OL230091-01

Item	Part No.	Part Name	Qty.
1	QP23-0256	Screw Cover	4
2	VV83A9G12	Tapping Screw Pan Phillips	
		Type B #10 x 3/8" z.p.	4

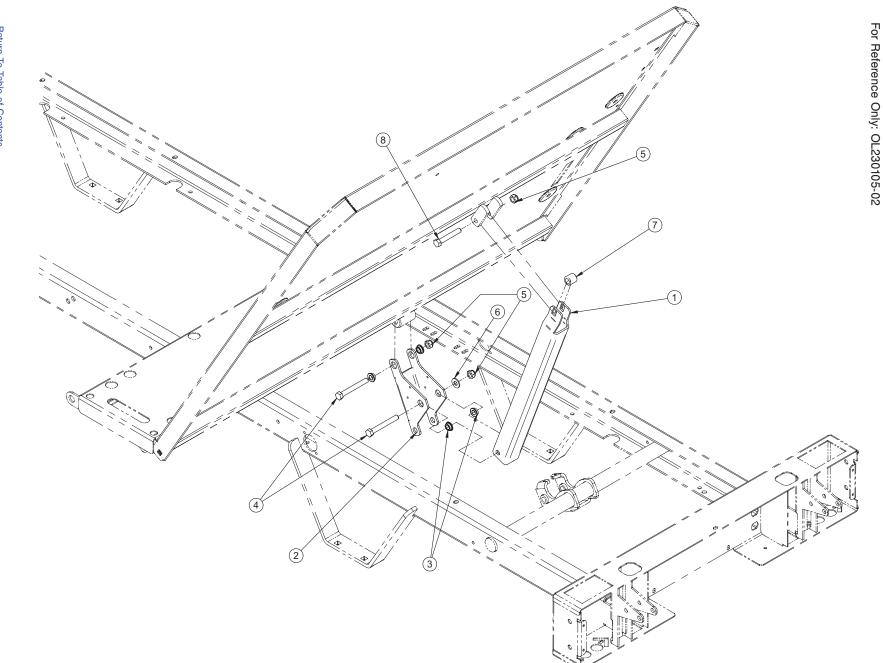


Wheel Covers - OL230101

For Reference Only: OL230101-03

Item	Part No.	Part Name	Qty.
1	QP25-0299-07	Right Caster Cover	2
2	25-0550	Caster Hood Velcro	4
3	QP28-0300-07	Left Caster Cover	2
4	VV81A9E16	Tapping Screw Type B Flat	
		Head Phillips # 8 x 1/2 z.p.	4

Without CPR Emergency Release - OL230105



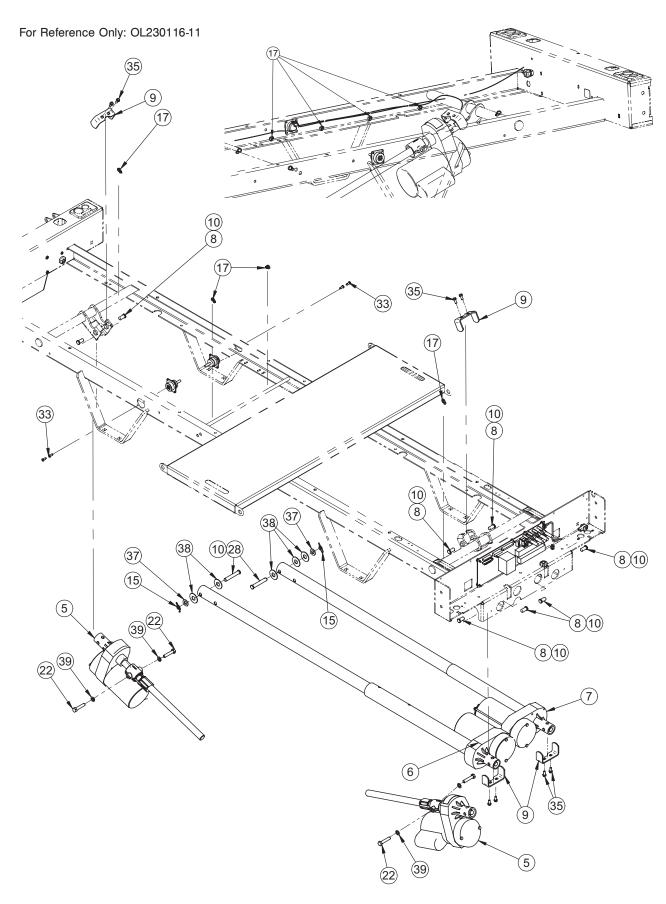
Without CPR Emergency Release - OL230105

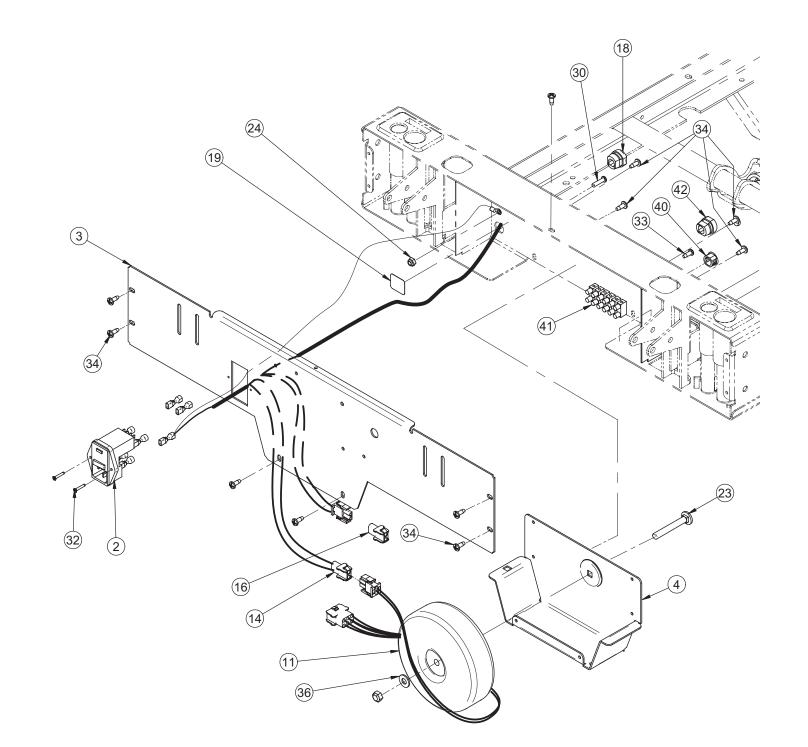
For Reference Only: OL230105G-03

Item	Part No.	Part Name	Qty.
1	20-0223G	Head Section Arm Lever	1
2	25-0362Z	Mattress Support Lever	1
3	QDF17-0020	Shoulder Spacer Diameter 5/16" x 0.210"	4
4	VB18A1O52	Hexagonal Bolt 5/16-18 x 2 1/2" Grade 8, z.p.	2
5	VE30A1O	Nylon Hexagonal Locknut 5/16-18 UNC z.p.	3
6	VW10A10	Flat Washer 5/16" SAE z.p.	1
7	VW60C201320	Nylon Spacer 5/8" x .386" x 39/64"	1
8	VB15A1O48	Hexagonal Bolt 5/16-18 2" Grade 5	1

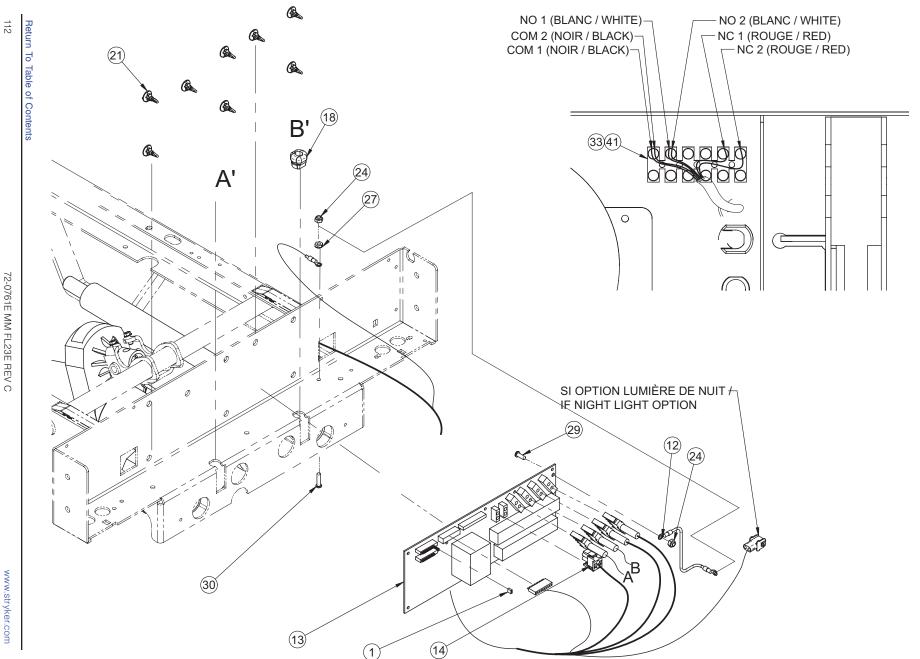
For Reference Only: OL230112-01

Item	Part No.	Part Name	Qty.
1	QDF20-0081	100V Connector	1
2	QDF8078	10A, 250V Long Fast Action Fuse	2
3	QE71-0571	Sticker - 10A, 250V Fuses	1
4	QE71-0754	100V CSA Sticker	1





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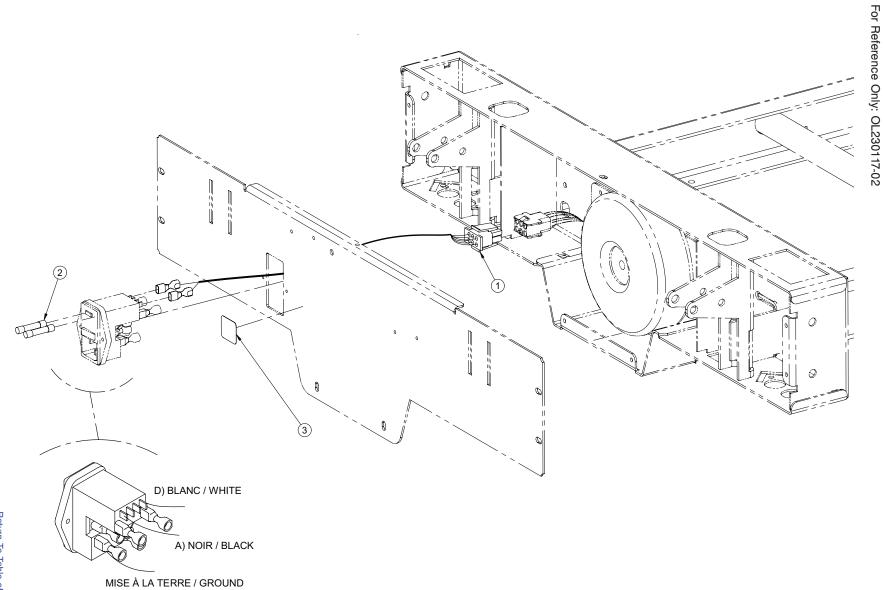


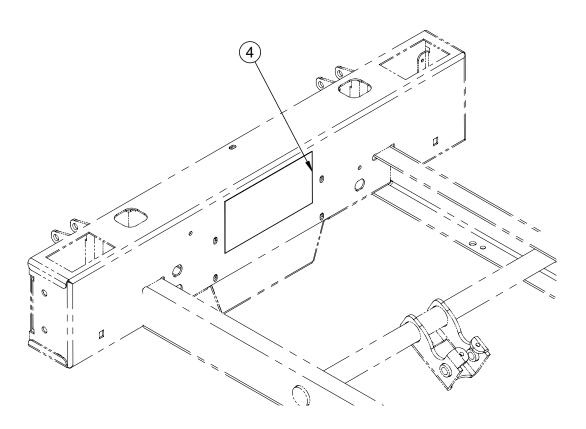
For Reference Only: OL230116G-10

Item	Part No.	Part Name	Qty.
1	QDF8047	PC Board Jumper	1
2	23-0267	Power Connector S.A.	1
3	23-0424G	International Head Casing Cover	1
4	23-0317G	Transformer Support	1
5	23-0702	Hubble Hi-Lo Actuator	2
6	23-0335G	Hubble Head Actuator	1
7	23-0336	Hubble Thigh Actuator	1
8	25-0250Z	Actuator Pivot	8
9	25-0251Z	Head/Thigh Actuator	
		Support Cover	4
10	M0019	Petro Canada OG2 Grease	.0100
11	QDF14-1160	Medical Toroid Transformer	1
12	QDF17-0138	PC Board Ground Wire	1
13	QDF23-0315	Control Board	1
14	QDF23-0573	FL23E Siderail Control Cable - International Electric	
		System S.A.	1
15	QDF7878	Rue Ring Cotter	
		Diameter 3/8" z.p.	2
16	QDF8042	«AMP» Cap Housing	
		#1-480699-0	1
17	QDF9518	Nylon Ty-Rap Black	
		(0.143 X 8")	8
18	QDF9541	Strain Relief SR 6P3-4	2
19	QE71-0572	Sticker - Ground	1
21	QP23-0735	Control Board Stand-off Pin	8
22	VB15A1O40	Hexagonal Bolt 5/16-18 X 1 1/2"	
		Grade 5 z.p.	4
23	VB35A1O50	Carriage Bolt 5/16-18 x	
		2 1/4" z.p.	1
24	VE30A0G	Nylon Hexagonal Locknut	
		#10-32 z.p.	3
26	VE30A1O	UNC Grade C ESNA Nut	
		5/16 - 18	1
27	VE80A0G	"K-lok" Locknut #10-32 z.p.	1
28	VG50B1250	Clevis Pin Diameter	
		3/8" x 2-1/4" z.p.	2
29	VV33A0G16	Machine Screw Pan Phillips	
		#10-32 x 1/2" z.p.	1
30	VV33A0G24	Machine Screw Phillips	
		Pan Head #10-32 x 3/4" z.p.	2
32	VV41A1A20	Phillips Countersunk Screw	
		Type F #4-40 x 5/8" zp	2
33	VV83A9E16	Tapping Screw Pan Phillips	
		Type B #8 x 1/2" z.p.	5
34	VV83A9G16	Tapping Screw Pan Phillips	
		Type B #10 x 1/2" z.p.	11
35	VV84A1H46	Flanged Hexagonal Head	
		Tapping Screw #12 X 1/2	
		Type B z.p.	8

Item	Part No.	Part Name	Qty.
36	VW10A10	Flat Washer 5/16" SAE z.p	1
37	VW10A12	Washer 3/8" SAE z.p.	2
38	VW10C173602	Nylon Washer 1/2" Ins.	
		Dia. x 1 1/4" OU	5
39	VW20A10	Spring Washer 5/16"	4
40	QPPF1518	Plug Double "D" 5/8" Diameter	1
41	QDF9012	Terminal Strip (6 x 2)	1
42	QPNC0606	Strain Relief Bushing	1

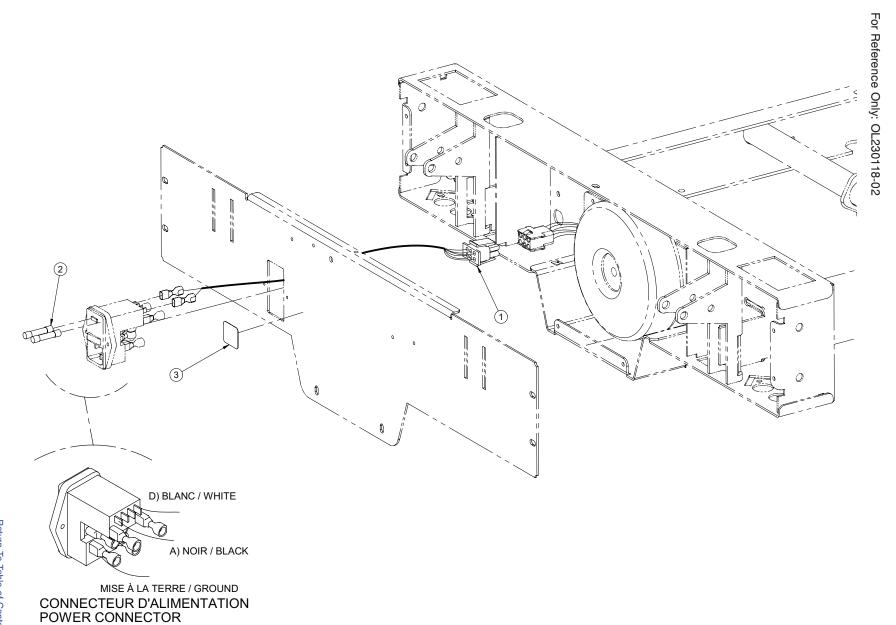
CONNECTEUR D'ALIMENTATION POWER CONNECTOR

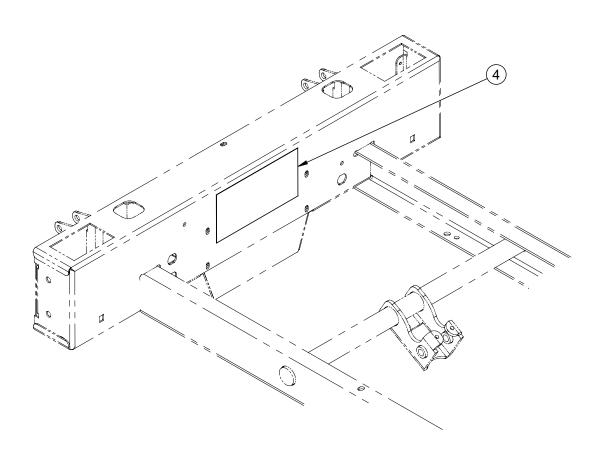




For Reference Only: OL230117-01

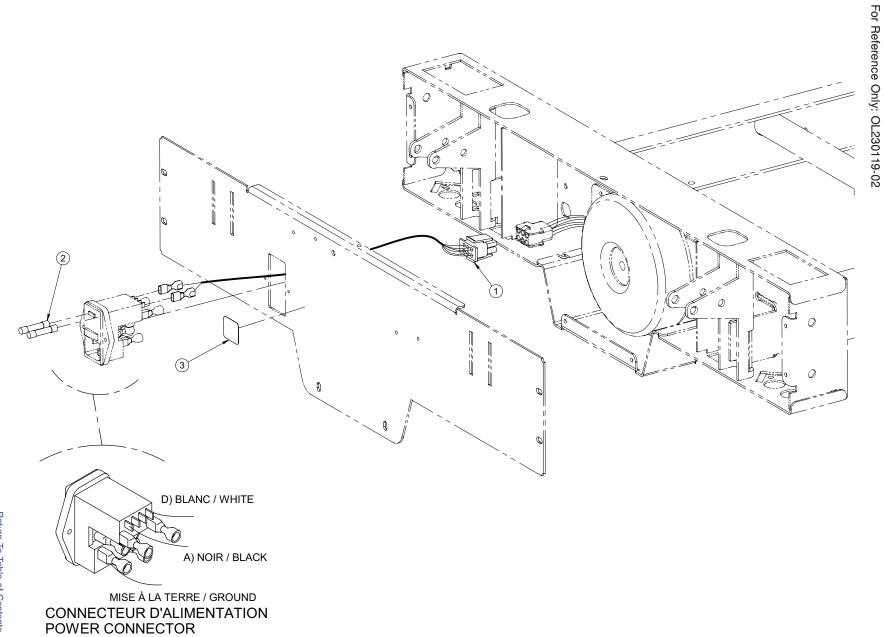
Item	Part No.	Part Name	Qty.
1	QDF20-0082	200V Connector	1
2	QDF8068	6.3A, 250V Slow-Blow Fuse	2
3	QE71-0573	Sticker - 6.3A, 250V Fuses	1
4	OF71-0755	200V CSA Sticker	1

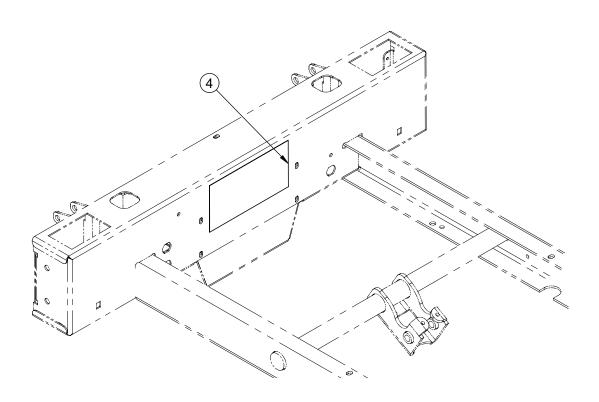




For Reference Only: OL230118-01

Item	Part No.	Part Name	Qty.
1	QDF20-0083	220V Connector	1
2	QDF8068	6.3A, 250V Slow-Blow Fuse	2
3	QE71-0573	Sticker - 6.3A, 250V Fuses	1
4	QE71-0756	220V CSA Sticker	1



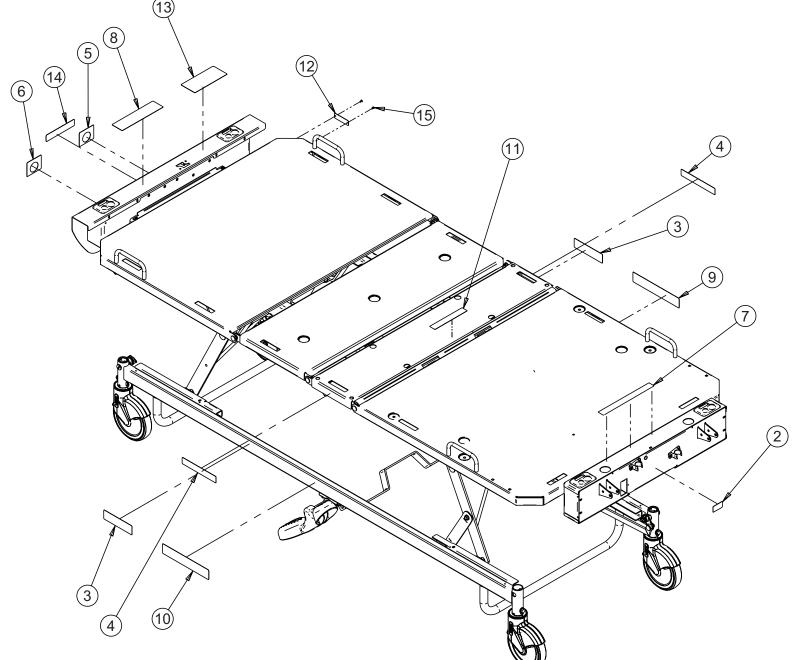


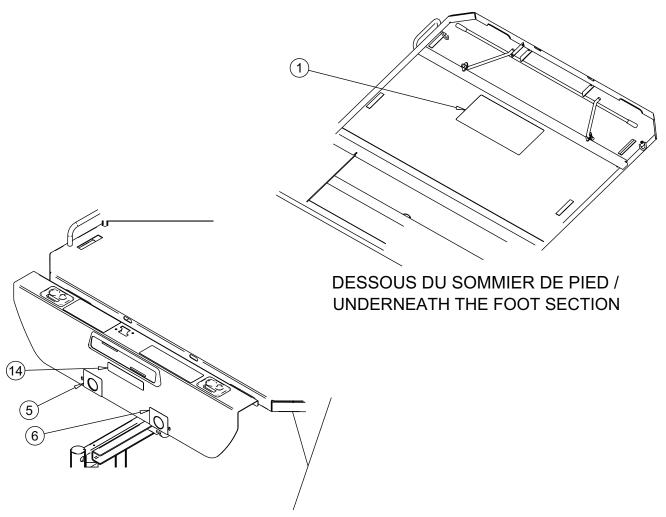
For Reference Only: OL230119-01

Item	Part No.	Part Name	Qty.
1	QDF20-0084	240V Connector	1
2	QDF8068	6.3A, 250V Slow-Blow Fuse	2
3	QE71-0573	6.3A Fuses - Sticker	1
4	QE71-0757	240V CSA - Sticker	1

Stickers French/English - OL230120

For Reference Only: OL230120-05 2



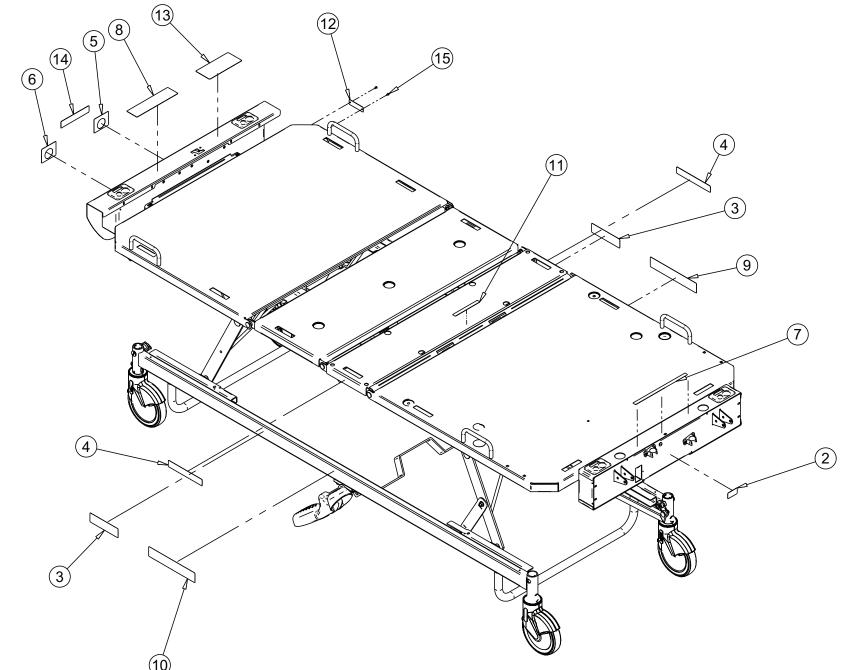


For Reference Only: OL230120-03

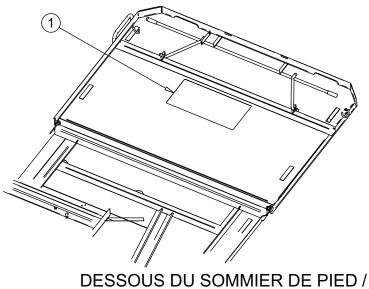
Item	Part No.	Part Name	Qty.
1	QE14400-F	Sticker - Results of	
		Automated Tests	1
2	QE18545	"Refer to Manual" Sticker	1
3	QE71-0346	Sticker - STRYKER	2
4	QE71-0547	Sticker - Maximum Load	2
5	QE71-0707	Sticker - Emergency Handle	
		Position/Head Section	1
6	QE71-0708	Sticker - Emergency Handle	
		Position/Thigh Section	1
7	QE71-0737-T	Sticker - Serious Injury	1
8	QE71-0738-T	Sticker - Electric Shock Hazard	1
9	QE71-0739-T	Sticker - Right Pedal Positions	1
10	QE71-0740-T	Sticker - Left Pedal Positions	1
11	QE71-0741-T	Sticker - Mattress Maximum	
		Thickness	1
12	QE71-0749-T	Serial Number Plate	1
13	QE71-0752-F	Fire Hazard - Sticker	1
14	QE71-0778-F	Sticker - Accessory Warning	1
15	VR11H43	Dome Head Pop Rivet #43	2

Stickers English/Spanish - OL230121

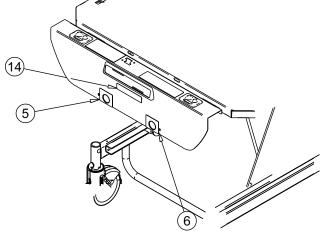
For Reference Only: OL230121-05



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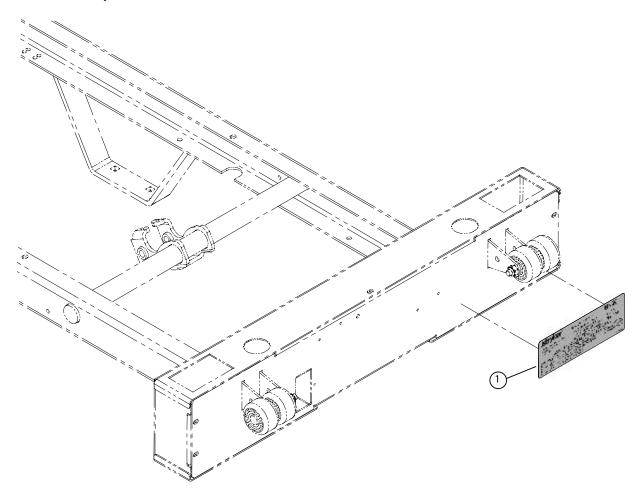
UNDERNEATH THE FOOT SECTION



For Reference Only: OL230121-03

Part No.	Part Name	Qty.
QE14400-F	Sticker - Results of	
	Automated Tests	1
QE18545	"Refer to Manual" Sticker	1
QE71-0346	Sticker - STRYKER	2
QE71-0547	Sticker - Maximum Load	2
QE71-0707	Sticker - Emergency Handle	
	Position/Head Section	1
QE71-0708	Sticker - Emergency Handle	
	Position/Thigh Section	1
QE71-0737-T	Sticker - Serious Injury	1
QE71-0738-T	Sticker - Electric Shock Hazard	1
QE71-0739-T	Sticker - Right Pedal Positions	1
QE71-0740-T	Sticker - Left Pedal Positions	1
QE71-0741-T	Sticker - Mattress Maximum	
	Thickness	1
QE71-0749-T	Serial Number Plate	1
QE71-0752-E	Fire Hazard - Sticker	1
QE71-0778-E	Sticker: Accessory Warning	1
VR11H43	Dome Head Pop Rivet #43	2
	QE14400-F QE18545 QE71-0346 QE71-0547 QE71-0707 QE71-0708 QE71-0738-T QE71-0739-T QE71-0740-T QE71-0741-T QE71-0749-T QE71-0752-E QE71-0778-E	QE14400-F Sticker - Results of Automated Tests QE18545 "Refer to Manual" Sticker QE71-0346 QE71-0547 QE71-0707 Sticker - Maximum Load QE71-0708 QE71-0708 QE71-0738-T QE71-0738-T QE71-0739-T QE71-0740-T QE71-0740-T QE71-0740-T QE71-0740-T QE71-0749-T QE71-0752-E QE71-0778-E Sticker - Results of Automated Tests "Refer to Manual" Sticker - Sticker - Maximum Load Position/Head Section Sticker - Emergency Handle Position/Thigh Section Sticker - Serious Injury Sticker - Serious Injury Sticker - Electric Shock Hazard QE71-0739-T Sticker - Right Pedal Positions Sticker - Left Pedal Positions Sticker - Left Pedal Positions Sticker - Mattress Maximum Thickness Serial Number Plate Fire Hazard - Sticker QE71-0778-E Sticker: Accessory Warning

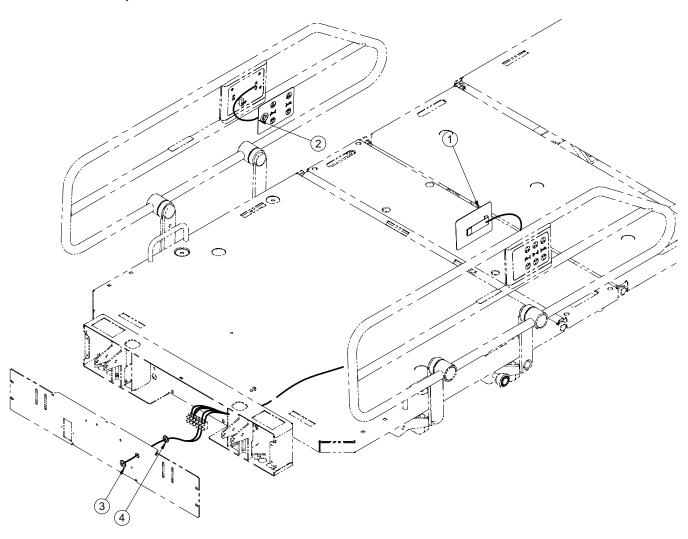
For Reference Only: OL230144-00



For Reference Only: OL230144-01

·	Item	Part No.	Part Name	Qty.
	1	QF71-0796-F	BNO Certified Bed	1

For Reference Only: OL230198-01

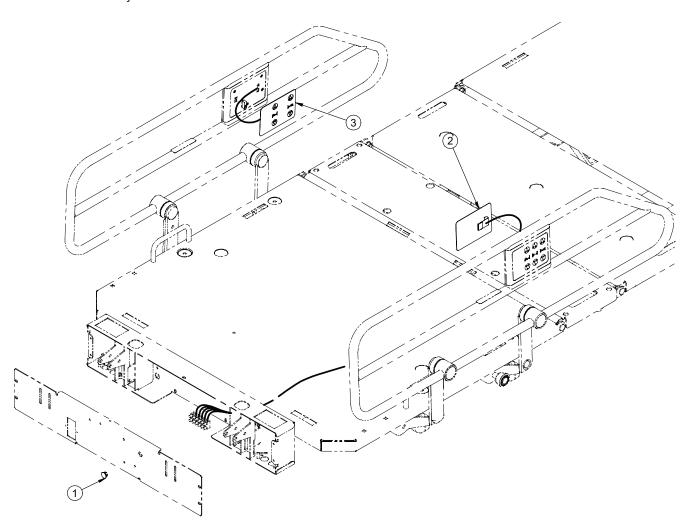


For Reference Only: OL230198-01

Item	Part No.	Part Name	Qty.
1	QDF23-0396	Foot/Head Membrane with Nurse Call	1
2	QDF23-0397	Head/Foot Membrane	
		with Nurse Call	1
3	VW10C162402	Nylon Washer 0,505" Ins.	
		Dia. x 3/4" OU	1
4	VW60C122408	Shoulder Spacer 3/8"	
		Ins. Dia.	1

Fixed Control Panel without Nurse Call - OL230199

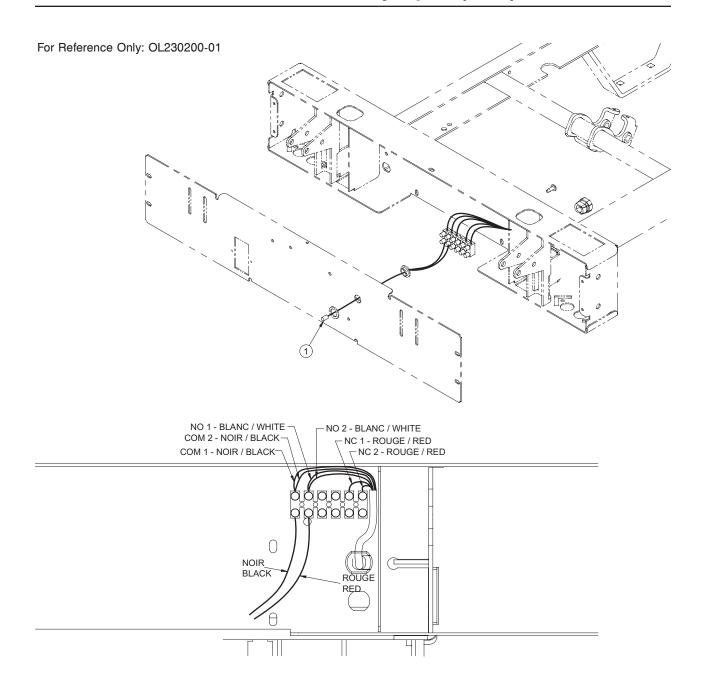
For Reference Only: OL230199-02



For Reference Only: OL230199-01

Item	Part No.	Part Name	Qty.
1	QPCE1207	Diameter 5/8"-18 unc ga	
		16-18 Cap	1
2	QDF23-0392	Left Membrane without	
		Nurse Call	1
3	QDF23-0393	Right Membrane without	
		Nurse Call	1

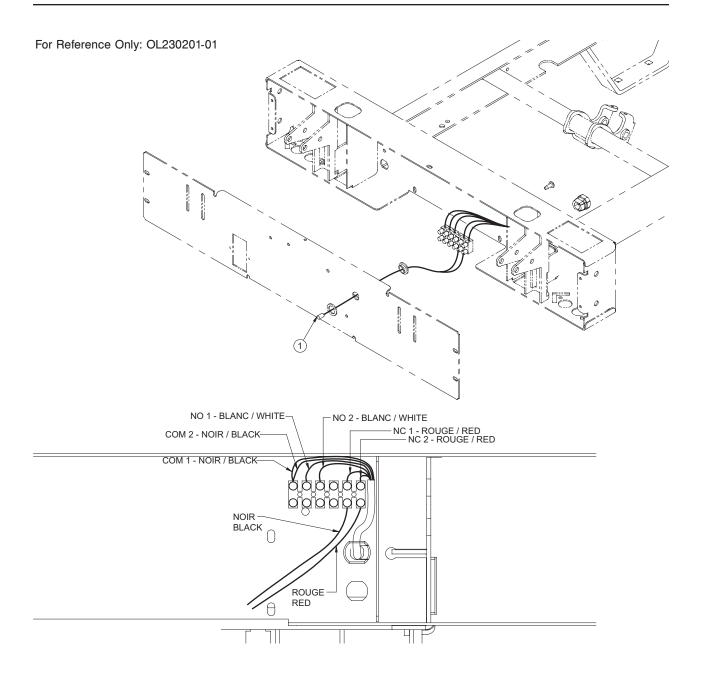
Control with Nurse Call Normally Open (N.O.) - OL230200



For Reference Only: OL230200-01

lte	em	Part No.	Part Name	Qty.
	1	QDF23-0530	1/4 Normally Open (N.O.) Phono	
			Plug Cable	1

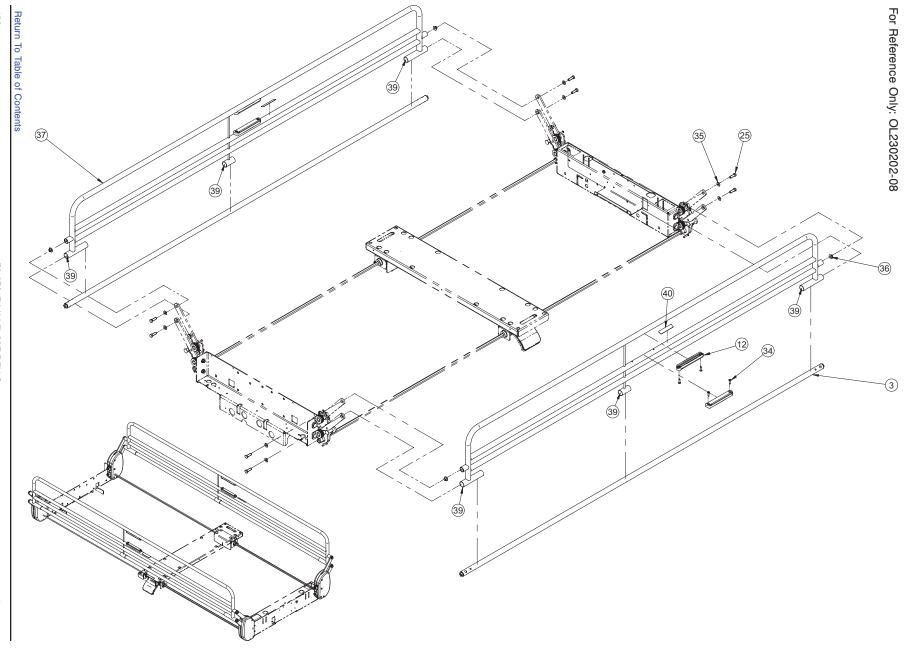
Control with Nurse Call Normally Closed (N.C.) - OL230201

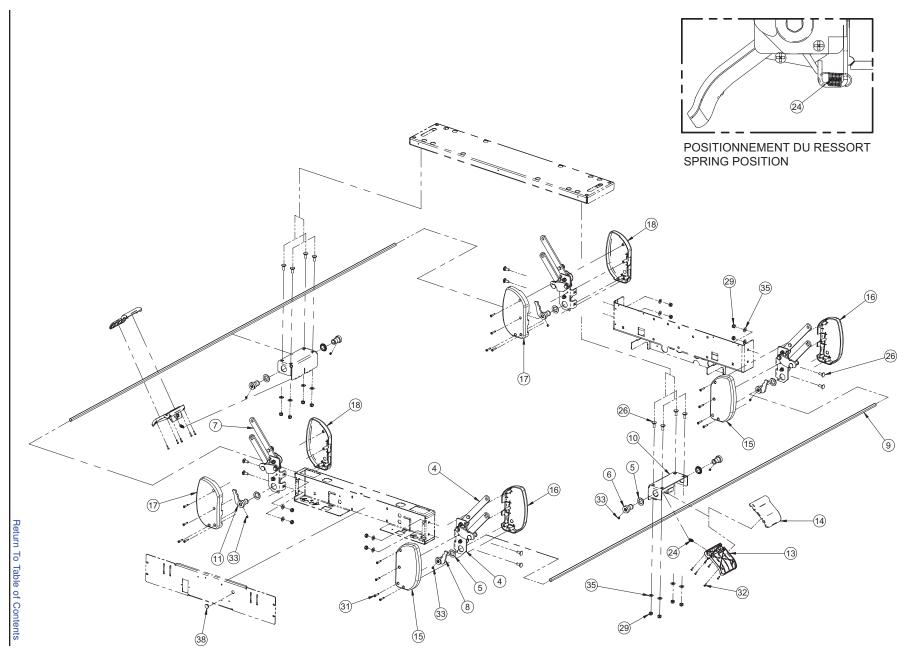


For Reference Only: OL230201-01

Item	Part No.	Part Name	Qty.
1	QDF23-0531	1/4 Normally Closed (N.C.) Phono Plug Cable	1

Full-Length Retractable Siderail - OL230202





Painted Full-Length Retractable Siderail - OL230202G

For Reference Only: OL230202G-06

Item	Part No.	Part Name	Qty.
3	23-0492G	Pivot Tube S.A.	2
4	23-0535G	Right Siderail Mechanism S.A.	2
5	23-0541	Shoulder Spacer	8
6	23-0547Z	Lock Bushing	4
7	23-0548G	Left Siderail Mechanism S.A.	2
8	23-0549Z	Right Release Finger S.A.	2
9	23-0550Z	Release Rod - Head	2
10	23-0551G	Release Handle Bracket	2
11	23-0555Z	Left Release Finger S.A.	2
12	QP23-0389-07	Removable Control Panel Support	4
13	QP23-0556-08	Release Handle - Upper Part	2
14	QP23-0557-08	Release Handle - Lower Part	2
15	QP23-0623-07	Head Right Siderail Mechanism	
		Outer Cover	2
16	QP23-0624-07	Foot Right Siderail Mechanism	
		Outer Cover	2
17	QP23-0625-07	Head Left Siderail Mechanism	
		Outer Cover	2
18	QP23-0626-07	Foot Left Siderail Mechanism	
		Outer Cover	2
24	QRE23-0561	Release Handle Extension Spring	2
25	VB15A1O32-S	Hexagonal Bolt 5/16 - 18 x 1"	
		Grade 5 z.p.	8
26	VB35A1O24	Carriage Bolt (Short Neck)	
		5/16-18 x 3/4" z.p. Grade 5	16
29	VE30A1O	Nylon Hexagonal Locknut	
		5/16-18 UNC z.p.	16
31	VV23A1G32HL	Tapping Screw Pan Phillips	
		Type High-Low #10 x 1" z.p.	16
32	VV23A9C16HL	Phillips Pan Head High-Low	
		Tapping Screw Type B #6 X 1/2	12
33	VV61A0M08	Nylon Tipped Hexagonal Socket	
		Set Screw 1/4 - 28 x 1/4"	8
34	VV83A9G24	Tapping Screw Pan Phillips	
		Type B #10 x 3/4" z.p.	8
35	VW10A10	Flat Washer 5/16" SAE z.p.	24
36	23-0658	Spacer	4
37	23-0485G	Full-Length Retractable	
		Siderails S.A.	2
38	QPCE1207	Diameter 5/8"-18 unc ga	
		16-18 Cap	1
39	M0019	Petro Canada OG2 Grease	.0300
40	QE71-0764T	Sticker: Manipulate Here	2

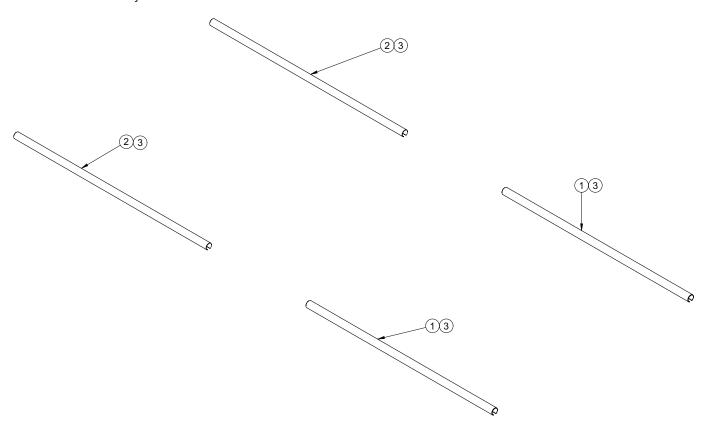
Chromed Full-Length Retractable Siderail - OL230202CG

For Reference Only: OL230202CG-06

Item	Part No.	Part Name	Qty.
3	23-0492C	Pivot Tube S.A.	2
4	23-0535G	Right Siderail Mechanism S.A.	2
5	23-0541	Shoulder Spacer	8
6	23-0547Z	Lock Bushing	4
7	23-0548G	Left Siderail Mechanism S.A.	2
8	23-0549Z	Right Release Finger S.A.	2
9	23-0550Z	Release Rod - Head	2
10	23-0551G	Release Handle Bracket	2
11	23-0555Z	Left Release Finger S.A.	2
12	QP23-0389-07	Removable Control Panel Support	2
13	QP23-0556-08	Release Handle - Upper Part	2
14	QP23-0557-08	Release Handle - Lower Part	2
15	QP23-0623-07	Head Right Siderail Mechanism Outer Cover	2
16	QP23-0624-07	Foot Right Siderail Mechanism Outer Cover	
17	QP23-0625-07	Head Left Siderail Mechanism Outer Cover	2
18	QP23-0626-07	Foot Left Siderail Mechanism Outer Cover	_
24	QRE23-0561	Release Handle Extension Spring	2
25	VB15A1O32-S	Hexagonal Bolt 5/16 - 18 x 1"	_
20	VB 10/11 002 0	Grade 5 z.p.	8
26	VB35A1O24	Carriage Bolt (Short Neck) 5/16-18 x 3/4" z.p. Grade 5	16
29	VE30A1O	Nylon Hexagonal Locknut 5/16-18 UNC z.p.	16
31	VV23A1G32HL	Tapping Screw Pan Phillips Type High-Low #10 x 1" z.p.	16
32	VV23A9C16HL	Phillips Pan Head High-Low	
33	VV61A0M08	Tapping Screw Type B #6 X 1/2 Nylon Tipped Hexagonal Socket	12
34	VV83A9G24	Set Screw 1/4 - 28 x 1/4" Tapping Screw Pan Phillips	8
		Type B #10 x 3/4" z.p.	8
35	VW10A10	Flat Washer 5/16" SAE z.p.	24
36	23-0658	Spacer	4
37	23-0485C	Full-Length Retractable Siderails S.A.	2
38	QPCE1207	Diameter 5/8"-18 unc ga 16-18 Cap	1
39	M0019	Petro Canada OG2 Grease	.0300
39 40	QE71-0764T	Sticker: Manipulate Here	.0300
		- : : : : : : : : : : : : : : : : : : :	_

PVC Protector - Half-Length Retractable Siderails - OL230205

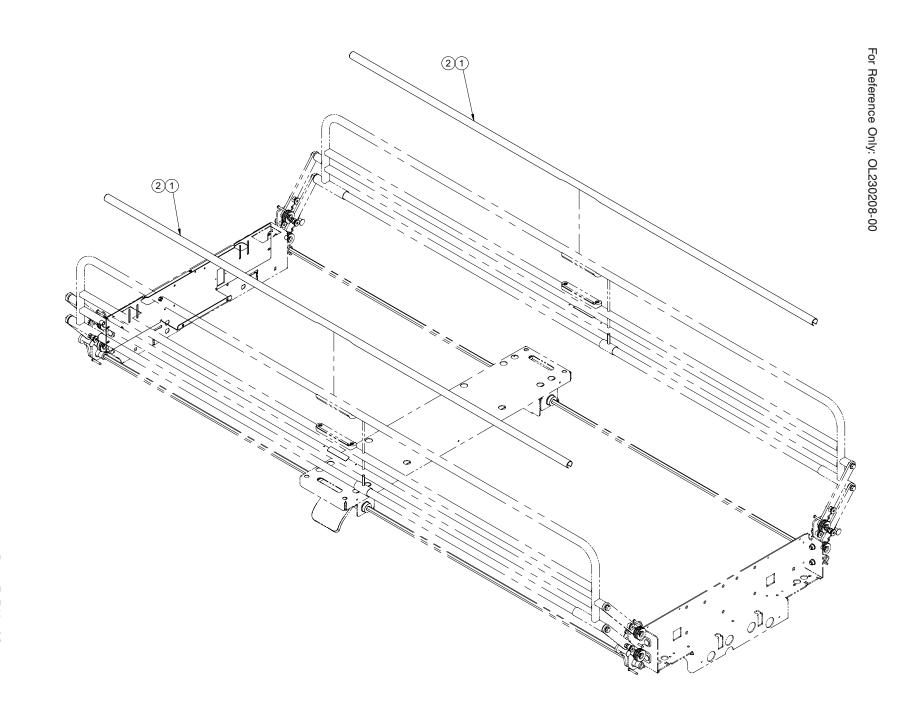
For Reference Only: OL230205-01



For Reference Only: OL230205-01

Item	Part No.	Part Name	Qty.
1	23-0478	Foot Siderail PVC Protector	2
2	23-0617	PVC Protector,	
		Retractable Split Siderails, Head	2
3	QDF7826	3M Adhesive Tape #950 x 1"	10

PVC Protector for Full-Length Siderail - OL230208



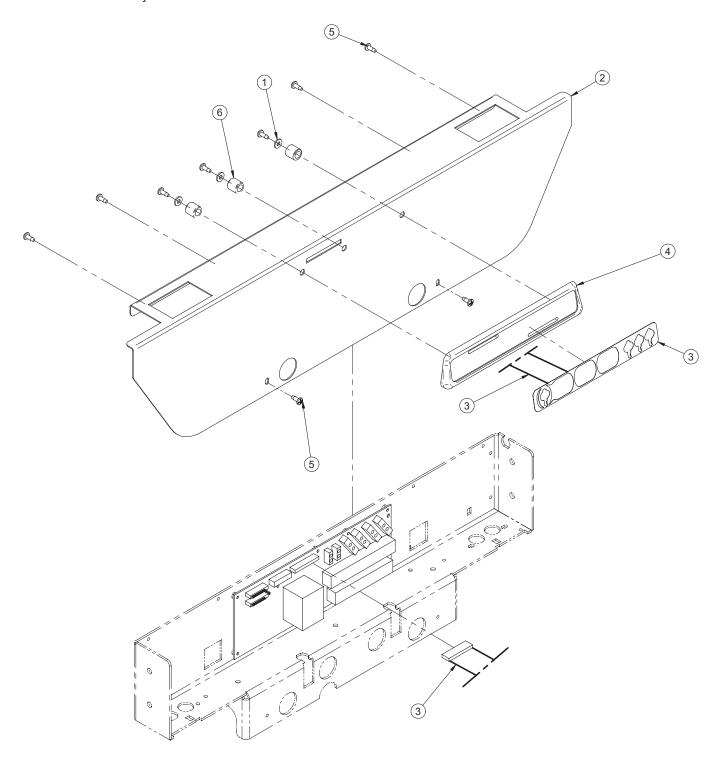
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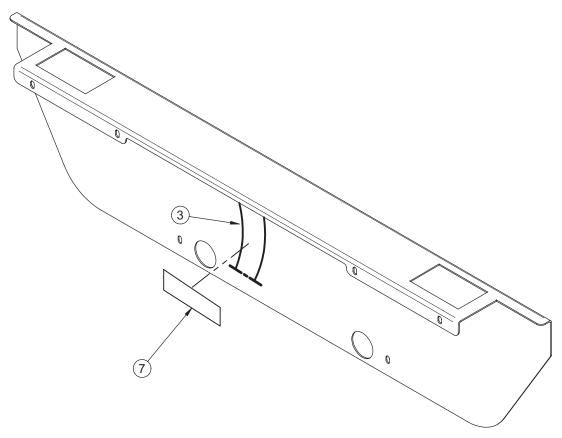
PVC Protector for Full-Length Siderail - OL230208

For Reference Only: OL230208-01

Item	Part No.	Part Name	Qty.
1	23-0641	Full-Length Siderail PVC Protector	2
2	QDF7826	3M Adhesive Tape #950 x 1"	12

For Reference Only: OL230209-01



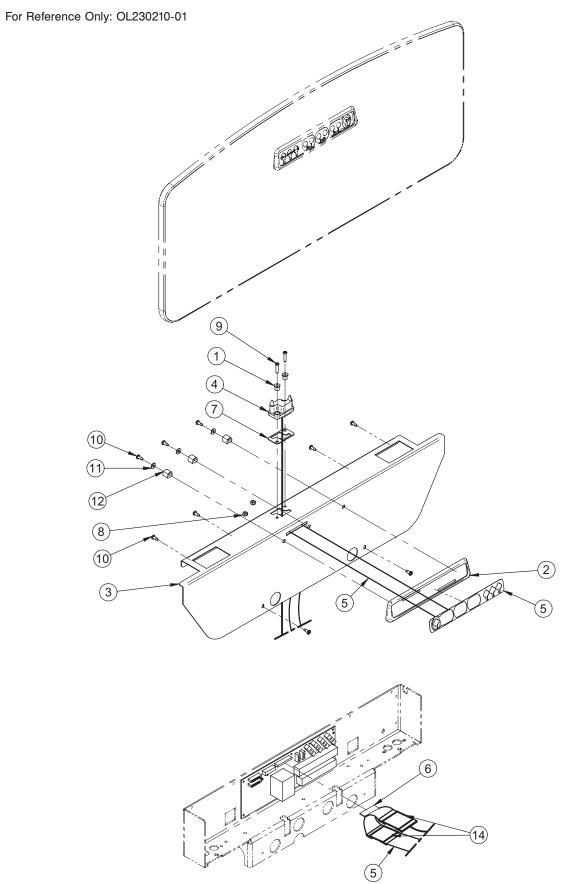


For Reference Only: OL230209G-02

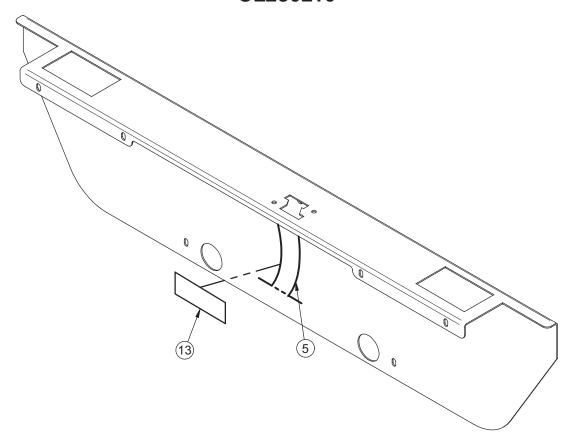
Item	Part No.	Part Name	Qty.
			_
1	VW10A06	Flat Washer #10 z.p.	3
2	23-0635G	Foot End Casing Cover	
		without Connector	1
3	QDF23-0693	Nurse Control Membrane	1
4	QP17-0127-07	Nurse Control Board	1
5	VV83A9G16	Tapping Screw Pan Phillips	
		Type B #10 x 1/2" z.p.	9
6	VW60C201320	Nylon Spacer	
		5/8" x .386" x 39/64"	3
7	QDF7826	3M Adhesive Tape #950 x 1"	.2500

Foot End and Foot Board Control Panels - Full-Length Siderail

- OL230210



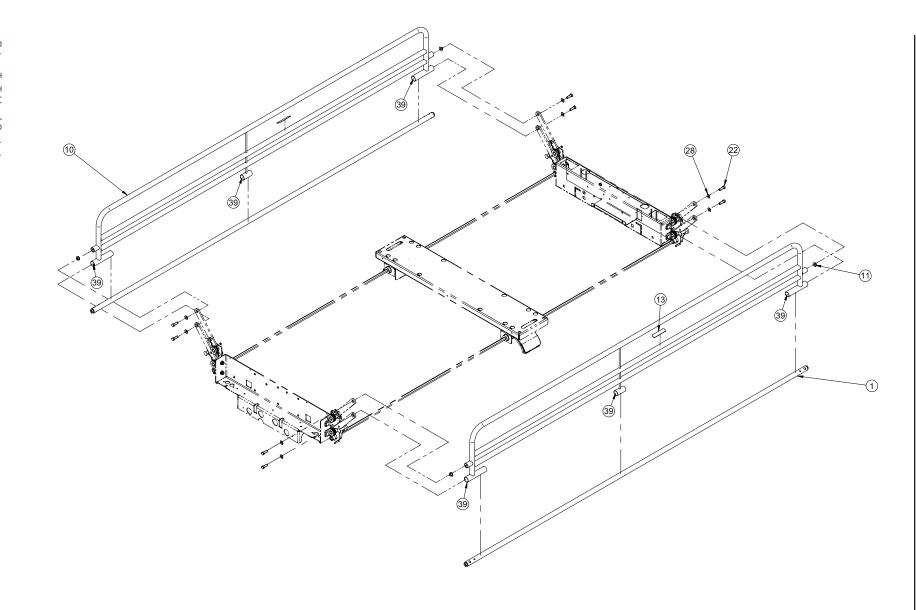
- OL230210



For Reference Only: OL230210G-02

Item	Part No.	Part Name	Qty.
1	17-0014Z	Shoulder Sleeve	2
2	QP17-0127-07	Nurse Control Board	1
3	23-0513G	Foot End Casing Cover	
		with Connector	1
4	QDF17-0141	PC-Board/Connector Cable	1
5	QDF23-0693	Nurse Control Membrane	1
6	QDF23-0279	Y Cable S.A.	1
7	QPN-17-0011	Seal	1
8	VE30A1G	Nylon Hexagonal Locknut	
		#10-24 z.p.	2
9	VV33A1G28	Machine Screw Pan Phillips	
		#10-24 x 7/8" z.p.	2
10	VV83A9G16	Tapping Screw Pan Phillips	
		Type B #10 x 1/2" z.p.	9
11	VW10A06	Flat Washer # 10 z.p.	3
12	VW60C201320	Nylon Spacer	
		5/8" x .386" x 39/64"	3
13	QDF7826	3M Adhesive Tape #950 x 1"	.2500
14	QDF2053	Red PVC Tape	.5000

Retractable Full-Length Siderail without Pendant - OL230211



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Painted Retractable Full-Length Siderail without Pendant

- OL230211

For Reference Only: OL230211G-03

Item	Part No.	Part Name	Qty.
1	23-0492G	Painted Pivot Tube S.A.	2
2	23-0535G	Right Siderail Mechanism S.A.	2
3	23-0541	Shoulder Spacer	8
4	23-0547Z	Lock Bushing	4
5	23-0548G	Left Siderail Mechanism S.A.	2
6	23-0549Z	Right Release Finger S.A.	2
7	23-0550Z	Release Rod - Head	2
8	23-0551G	Siderail Handle Bracket	2
9	23-0555Z	Left Release Finger S.A.	2
10	23-0654G	Painted Full-Length Siderail	0
4.4	00 0650	without Pendant S.A.	2 4
11	23-0658	Spacer	-
12	M0019	Petro Canada OG2 Grease	0.0300
13	QE71-0764T	Sticker: Manipulate Here	2
14	QP23-0556-08	Release Handle - Upper Part	2
15	QP23-0557-08	Release Handle - Lower Part	2
16	QP23-0623-07	Head Right Siderail Mechanism	•
47	0000 0004 07	Outer Cover	2
17	QP23-0624-07	Foot Right Siderail Mechanism	
40	0000 0005 05	Outer Cover	2
18	QP23-0625-07	Head Left Siderail Mechanism	
40	0000 0000 00	Outer Cover	2
19	QP23-0626-07	Foot Left Siderail Mechanism	_
		Outer Cover	2
20	QPCE1207	Diameter 5/8"-18 unc ga	
		16-18 Cap	1
21	QRE23-0561	Handle Extension Spring	2
22	VB15A1O32-S	Release Hexagonal Bolt	_
		5/16"-18 x 1" LG Grade 5	8
23	VB35A1O24	Carriage Bolt (short neck)	
		5/16-18 x 3/4" Grade 5 z.p.	16
24	VE30A1O	Nylon Hexagonal Locknut	
		5/16"-18 UNC z.p.	16
25	VV23A1G32HL	Tapping Screw "High-Low" Type	
		Phillips Pan #10 x 1" z.p.	16
26	VV23A9C16HL	Phillips Pan Head High-Low Tapping	
		Screw Type B #6 x 1/2"	12
27	VV61A0M08	Nylon Tipped Hexagonal Socket	
		Set Screw 1/4-28 x 1/4"	8
28	VW10A10	Flat Washer Diameter	
		5/16" S.A.E. z.p.	24

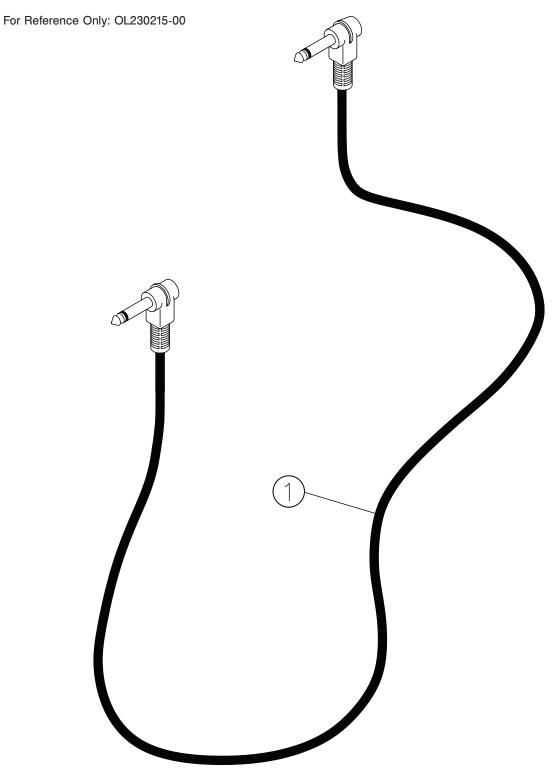
Chromed Retractable Full-Length Siderail without Pendant

- OL230211

For Reference Only: OL230211CG-03

Item	Part No.	Part Name	Qty.
1	23-0492C	Chromed Pivot Tube S.A.	2
2	23-0535G	Right Siderail Mechanism S.A.	2
3	23-0541	Shoulder Spacer	8
4	23-0547Z	Lock Bushing	4
5	23-0548G	Left Siderail Mechanism S.A.	2
6	23-0549Z	Right Release Finger S.A.	2
7	23-0550Z	Release Rod - Head	2
8	23-0551G	Siderail Handle Bracket	2
9	23-0555Z	Left Release Finger S.A.	2
10	23-0654C	Chromed Full-Length Siderail without Pendant S.A.	2
11	23-0658	Spacer	4
12	M0019	Petro Canada OG2 Grease	0.0300
13	QE71-0764T	Sticker: Manipulate Here	2
14	QP23-0556-08	Release Handle - Upper Part	2
15	QP23-0557-08	Release Handle - Lower Part	2
16	QP23-0623-07	Head Right Siderail Mechanism	_
.0	Q. 20 0020 07	Outer Cover	2
17	QP23-0624-07	Foot Right Siderail Mechanism	_
••	G. 20 002 . 07	Outer Cover	2
18	QP23-0625-07	Head Left Siderail Mechanism	_
	G. 20 0020 07	Outer Cover	2
19	QP23-0626-07	Foot Left Siderail Mechanism	_
		Outer Cover	2
20	QPCE1207	Diameter 5/8"-18 unc ga	_
	G. 02.20.	16-18 Cap	1
21	QRE23-0561	Handle Extension Spring	2
22	VB15A1O32-S	Release Hexagonal Bolt	_
		5/16"-18 x 1" LG Grade 5	8
23	VB35A1O24	Carriage Bolt (short neck)	Ū
		5/16-18 x 3/4" Grade 5 z.p.	16
24	VE30A1O	Nylon Hexagonal Locknut	
		5/16"-18 UNC z.p.	16
25	VV23A1G32HL	Tapping Screw "High-Low" Type	
	V V 207 (1 G/02/12	Phillips Pan #10 x 1" z.p.	16
26	VV23A9C16HL	Phillips Pan Head High-Low Tapping	
	7 7 207 10 0 10112	Screw Type B #6 x 1/2"	, 12
27	VV61A0M08	Nylon Tipped Hexagonal Socket	
_,		Set Screw 1/4-28 x 1/4"	8
28	VW10A10	Flat Washer Diameter	J
20	***************************************	5/16" S.A.E. z.p.	24
		0, 10 0.7 t.E. 2.p.	

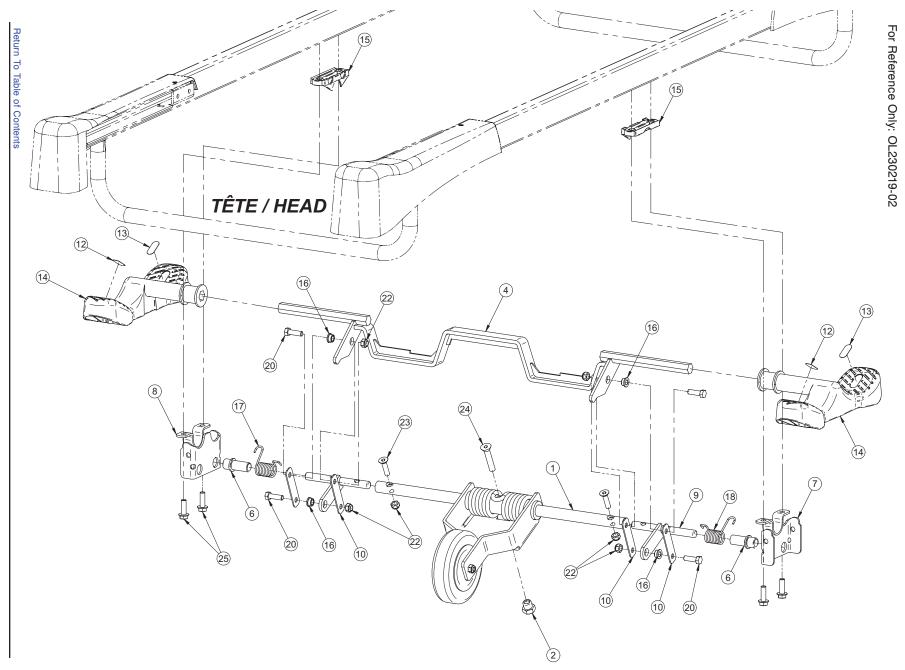
Cable and Phone Plug 1/4 - OL230215

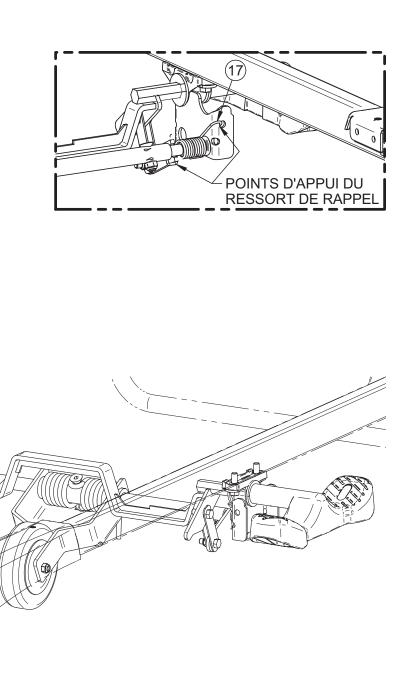


For Reference Only: OL230215-01

Item	Part No.	Part Name	Qty.
1	ODF23-0571	Mono Wall Connection Cable	1

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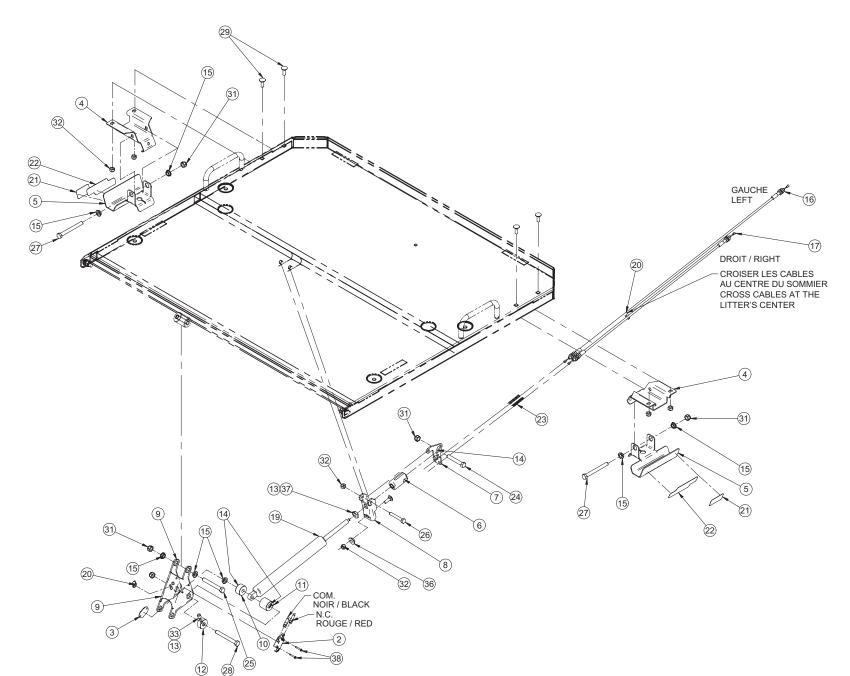
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TÊTE / HEAD

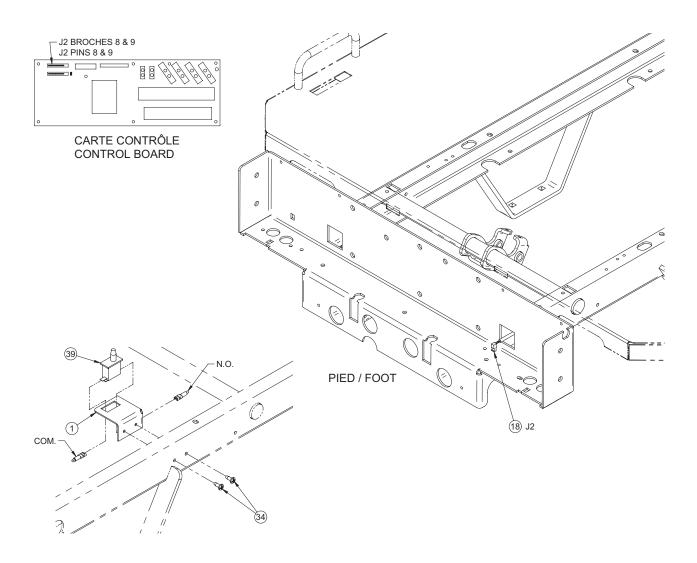
5th Wheel - OL230219G

For Reference Only: OL230219G-01

Item	Part No.	Part Name	Qty.
1	17-0082G	Torque Shaft	1
2	17-0104Z	5 th Wheel Support	1
3	17-0124G	5 th Wheel Spring	1
4	17-0714G	Actuating Lever S.A.	1
5	25-0068	5 th Wheel Bushing	1
6	25-0340	5/16 x 3/16 Spacer	4
7	25-0581	Nylon Bushing 1/2" ID	2
8	28-0132Z	Right 5th Wheel Support S.A.	1
9	28-0133Z	Left 5 th Wheel Support S.A.	1
10	28-0149Z	Torsion Lever	2
11	28-0150Z	Counter Lever	4
12	28-0151G	Clearance Arm	1
13	QE71-0496	5 th Wheel Green Sticker	2
14	QE71-0511	Brake Sticker	2
15	QP23-0627-11	Pedal	2
16	QPA25-0312	Molded Spacer	2
17	QRD25-0582	Left Torsion Spring	1
18	QRD25-0585	Right Torsion Spring	1
19	RL5	5 th Wheel	1
20	VB15A1O32	Hexagonal Bolt 5/16-18 x 1"	
		Grade 5, z.p.	4
21	VB15A1O50	Hexagonal Bolt 5/16-18	
		2 1/4" Grade 5 z.p.	1
22	VE30A1O	Nylon Hexagonal Locknut 5/16-18	
		UNC z.p.	7
23	VV11A1O36	Flat Head Hexagonal Socket Cap	
		Screw 5/16-18 UNC x 1 1/4" z.p.	2
24	VV11A1P48	Flat Head Hexagonal Socket Cap	
		Screw 3/8-16 UNC x 2" z.p.	1
25	VVB4A1O32	Bolt 5/16" - 18 X 1" Thread Rolling	4



CPR Emergency Release - OL230227

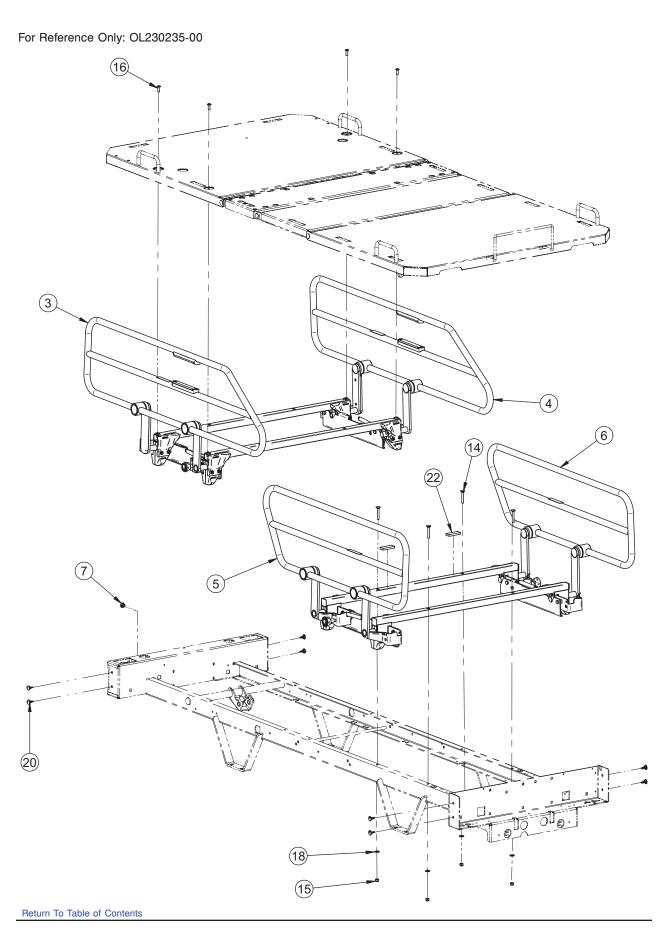


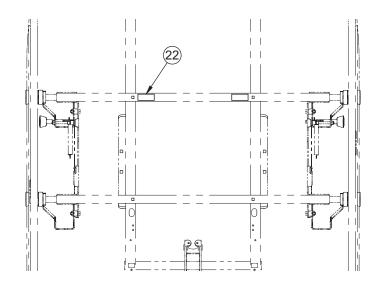
For Reference Only: OL230227G-00

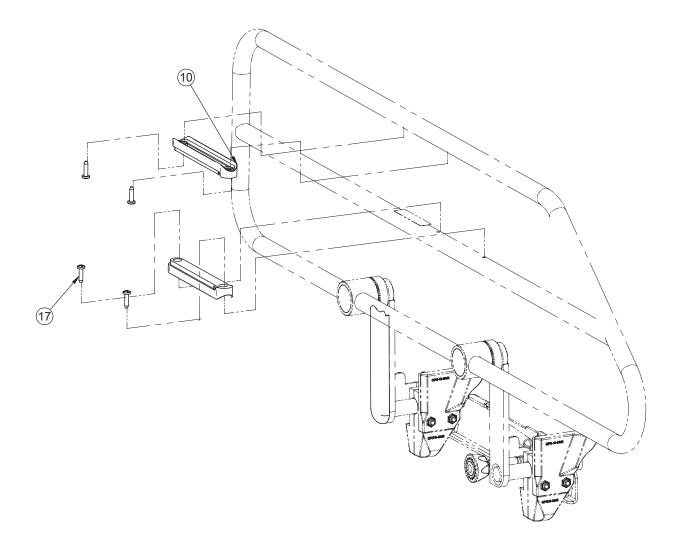
Item	Part No.	Part Name	Qty.
1	23-0736Z	Micro Switch Support	1
2	1325P003	Micro Switch	1
3	17-0192	Nut for Micro Switch	1
4	20-0015Z	Activation Handle Bracket	2
5	20-0242G	Activation Handle	2
6	20-0017Z	Activation Mechanism Socket	1
7	20-0018Z	Mobile Lever	1
8	20-0019Z	Fixed Lever	1
9	25-0362Z	Mattress Support Lever	1
10	25-0456Z	Sleeve	1
11	25-0514Z	Cylinder Inner Sleeve	1
12	25-0515Z	Cylinder Outer Sleeve	1
13	M0008	Threadlocker -	
		Medium Strength (Blue)	.3000
14	M0019	Petro Canada OG2 Grease	.0450
15	QDF17-0020	Shoulder Spacer Diameter	
		5/16" x 0.210"	7

CPR Emergency Release - OL230227

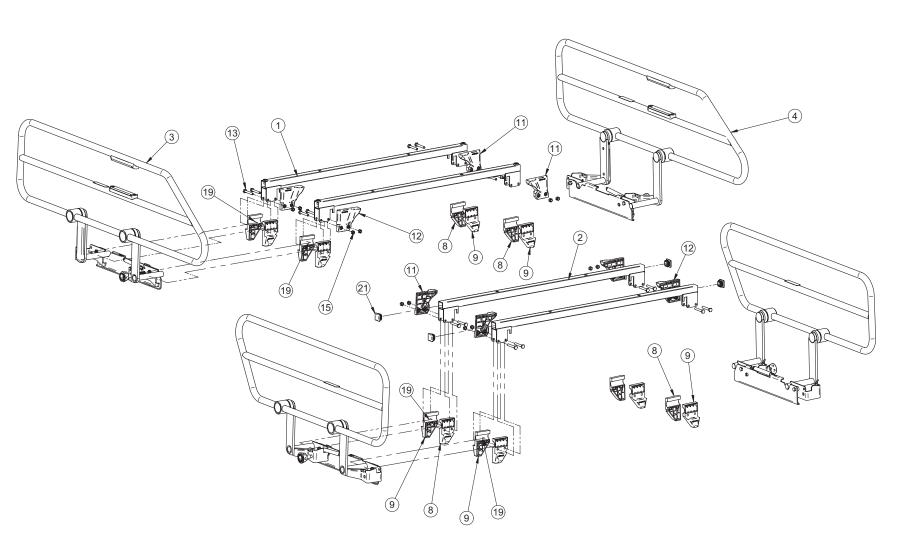
Item	Part No.	Part Name	Qty.
16	QDF19-0354	Head Section Cable	1
17	QDF19-0815	Short Head Section Cable	1
18	QDF23-0747	CPR Cable	1
19	QDF5090	CPR Pneumatic Cylinder	
		(Bloc-o-Lift #682802)	1
20	QDF9518	Nylon Ty-Rap Black (0.143 X 8")	2
21	QE18545	"Refer to Manual" Sticker	2
22	QE71-0222	Sticker - CPR	2
23	QRC18579	Compression Spring	2
24	VB15A1O48	Hexagonal Bolt 5/16-18 x 2"	
		Grade 5, z.p.	1
25	VB18A1O52	Hexagonal Bolt 5/16-18 x 2 1/2"	
		Grade 8, z.p.	1
26	VB15A1N44	Hexagonal Bolt 1/4-20 x 1 3/4"	
		Grade 5 z.p	1
27	VB15A1O56	Hexagonal Bolt 5/16-18 x 3"	
		Grade 5, z.p.	2
28	VB15A1O54	Hexagonal Bolt 5/16-18 unc x	
		2-3/4" Grade 5, z.p.	1
29	VB35A1N24	Carriage Bolt 1/4-20 x 3/4" z.p.	5
31	VE30A1O	Nylon Hexagonal Locknut	
		5/16-18 UNC z.p.	5
32	VE30A1N	Nylon Hexagonal Locknut	
		1/4-20 z.p.	6
33	VV60B1O12	Hexagonal Socket Set Screw	
		5/16-18 x 3/8 z.p.	1
34	VV83A9G16	Tapping Screw Pan Phillips	
		Type B #10 x 1/2" z.p.	2
36	VW60C081624	Nylon Shoulder Washer	
		(ID 270" x D 480" x OD 720")	1
37	VE20AOP	Locknut M10 x 1.0 z.p	1
38	VV87A9A24	Tapping Screw Truss Phillips	
		Socket #4 x 1/2"	2
39	QDF9159	Cherry Limit Switch	1







Retractable Siderails with Removable Controls - OL230235



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Retractable Chromed Siderails With Removable Controls - OL230235

For Reference Only: OL230235CG-00

Item	Part No.	Part Name	Qty.
1	23-0188G	Siderail Support and Insert	2
2	23-0650G	Siderail Support	2
3	23-0755C	Chromed Head Right Siderail	1
4	23-0756C	Chromed Head Left Siderail	1
5	23-0757C	Chromed Foot Right Siderail	1
6	23-0758C	Chromed Foot Left Siderail	1
7	QPCE1207	Cap	1
8	QP18-0240-07	Left Sleeve Bearing	8
9	QP18-0243-07	Right Sleeve Bearing	8
10	QP23-0389-07	Removable Control Panel Support	4
11	QP18-0241-07	Positioning Guide - Right	4
12	QP18-0242-07	Positioning Guide - Left	4
13	VB15A1N44	Bolt 1/4-20 UNC x 1 3/4" Grade 5	16
14	VB35A1N44	Carriage Bolt 1/4-20 x 1 3/4"	
		Grade 5	4
15	VE30A1N	Nylon Locknut 1/4-20	20
16	VV37A1N24-S	Machine Screw Truss Phillips	
		1/4-20 x 3/4" Scotch Grip	4
17	VV83A9G24	Tapping Screw Pan Phillips	
		Type B #10 x 3/4"	8
18	VW10A08	Flat Washer 1/4" x 1/16"	4
19	M0019	Petro Canada OG2 Grease	.0300
20	QP23-0735	PCB Support	8
21	QDF7908	Black Plug 1" #SQR-1-10-14	4
22	QDF299X	Adhesive Neoprene 1/4 x 3/4	.3333

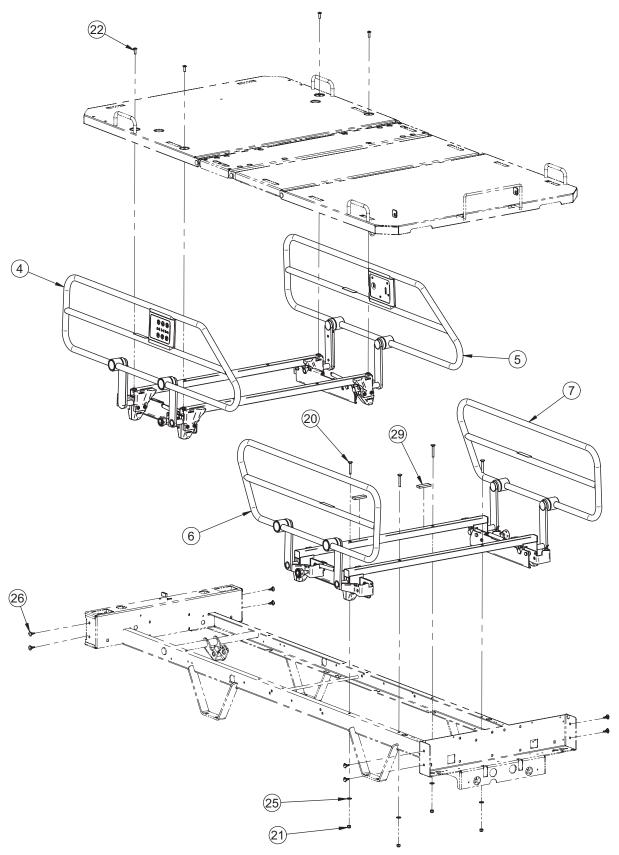
Retractable Painted Siderails with Removable Controls

- OL230235

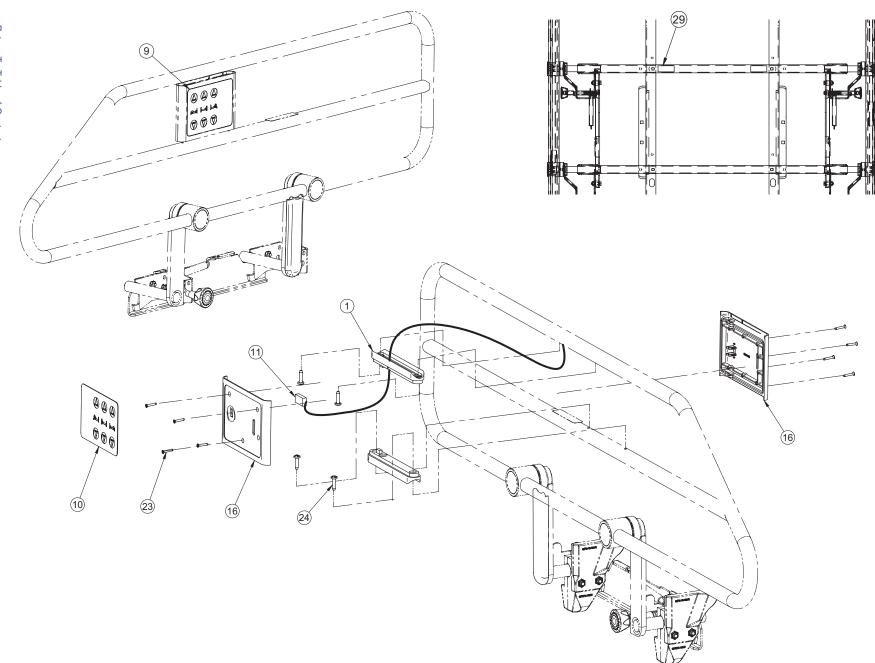
For Reference Only: OL230235G-00

Item	Part No.	Part Name	Qty.
1	23-0188G	Siderail Support and Insert	2
2	23-0650G	Siderail Support	2
3	23-0755G	Painted Head Right Siderail	1
4	23-0756G	Painted Head Left Siderail	1
5	23-0757G	Painted Foot Right Siderail	1
6	23-0758G	Painted Foot Left Siderail	1
7	QPCE1207	Cap	1
8	QP18-0240-07	Left Sleeve Bearing	8
9	QP18-0243-07	Right Sleeve Bearing	8
10	QP23-0389-07	Removable Control Panel Support	4
11	QP18-0241-07	Positioning Guide - Right	4
12	QP18-0242-07	Positioning Guide - Left	4
13	VB15A1N44	Bolt 1/4-20 x 1 3/4" Grade 5	16
14	VB35A1N44	Carriage Bolt 1/4-20 x 1 3/4"	
		Grade 5	4
15	VE30A1N	Nylon Locknut 1/4-20	20
16	VV37A1N24-S	Machine Screw Truss Phillips	
		1/4-20 x 3/4" Scotch Grip	4
17	VV83A9G24	Tapping Screw Pan Phillips	
		Type B #10 x 3/4" z.p.	8
18	VW10A08	Flat Washer 1/4" x 1/16	4
19	M0019	Petro Canada OG2 Grease	.0300
20	QP23-0735	PCB Support	8
21	QDF7908	Black Plug 1" #SQR-1-10-14	4
22	QDF299X	Adhesive Neoprene 1/4 x 3/4	.3333





Retractable Half-Length Siderails with Fixed Control - OL230236



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Retractable Chromed Half-Length Siderails with Fixed Control

12 13 28 31 DÉTAIL MONTAGE ATTACHE NYLON NYLON TIE MOUNTING DETAIL (17) T25 (2) - OL230236 (27) 18 (15) (15) Return To Table of Contents 8 14) 15) 15

Retractable Chromed Half-Length Siderails with Fixed Control

- OL230236

For Reference Only: OL230236CG-00

Item	Part No.	Part Name	Qty.
1	QP18821-07	Control Panel Support	4
2	23-0188G	Siderail Support and Insert	2
3	23-0650G	Siderail Support	2
4	23-0755C	Chromed Head Right Siderail	1
5	23-0756C	Chromed Head Left Siderail	1
6	23-0757C	Chromed Foot Right Siderail	1
7	23-0758C	Chromed Foot Left Siderail	1
8	M0019	Petro Canada OG2 Grease	.0300
9	QDF23-0405	Left Three-Function Membrane	1
10	QDF23-0406	Right Three-Function Membrane	1
11	QDF23-0521	Siderail Control Panel Cable	2
12	QDF5096	Flat Tie Holder	2
13	QDF9518	Nylon Ty-Rap Black (0.143 X 8")	4
14	QP18-0240-07	Left Sleeve Bearing	8
15	QP18-0243-07	Right Sleeve Bearing	8
16	QP23-0391-07	Pendant Control Casing	4
17	QP18-0241-07	Positioning Guide - Right	4
18	QP18-0242-07	Positioning Guide - Left	4
19	VB15A1N44	Hexagonal Bolt 1/4-20 UNC x 1 3/	4"
		Grade 5 z.p.	16
20	VB35A1N44	Carriage Bolt 1/4-20 x 1 3/4"	
		lg Grade 5	4
21	VE30A1N	Nylon Hexagonal Locknut	
		1/4-20 z.p.	20
22	VV37A1N24-S	Machine Screw Truss Phillips	
		1/4-20 x 3/4" Scotch Grip	4
23	VV41A1A20	Phillips Countersunk Screw	
		Type F #4-40 x 5/8" zp	16
24	VV83A9G24	Tapping Screw Pan Phillips	
		Type B #10 x 3/4" z.p.	8
25	VW10A08	Flat Washer 1/4" SAE zp	4
26	QP23-0735	Control Board Stand-off Pin	8
27	QDF7908	Black Plug 1" #SQR-1-10-14	4
28	QDF9018	"AMP" Pin Contact #66103-2	20
29	QDF299X	Adhesive Neoprene 1/4 x 3/4	.1666
30	QDF2042	Cable Clamp "AMP" 206070-1	2
31	QDF2043	14-Positions Circular Connector	2

Retractable Painted Half-Length Siderails with Fixed Control

- OL230236

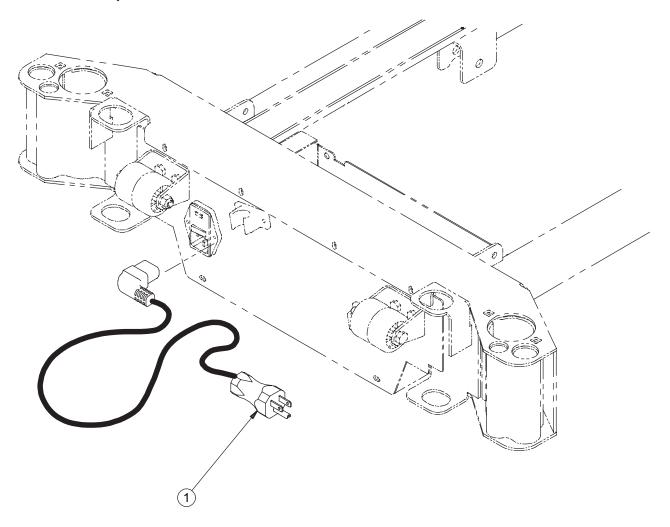
For Reference Only: OL230236G-00

Item	Part No.	Part Name	Qty.
1	QP18821-07	Control Panel Support	4
2	23-0188G	Siderail Support and Insert	2
3	23-0650G	Siderail Support	2
4	23-0755G	Painted Head Right Siderail	1
5	23-0756G	Painted Head Left Siderail	1
6	23-0757G	Painted Foot Right Siderail	1
7	23-0758G	Painted Foot Left Siderail	1
8	M0019	Petro Canada OG2 Grease	.0300
9	QDF23-0405	Left Three-Function Membrane	1
10	QDF23-0406	Right Three-Function Membrane	1
11	QDF23-0521	Siderail Control Panel Cable	2
12	QDF5096	Flat Tie Holder	2
13	QDF9518	Nylon Ty-Rap Black (0.143 X 8")	4
14	QP18-0240-07	Left Sleeve Bearing	8
15	QP18-0243-07	Right Sleeve Bearing	8
16	QP23-0391-07	Pendant Control Casing	4
17	QP18-0241-07	Positioning Guide - Right	4
18	QP18-0242-07	Positioning Guide - Left	4
19	VB15A1N44	Hexagonal Bolt 1/4-20 UNC x 1 3/4" Grade 5 z.p.	16
20	VB35A1N44	Carriage Bolt 1/4-20 x 1 3/4" lg Grade 5	4
21	VE30A1N	Nylon Hexagonal Locknut 1/4-20 z.p.	20
22	VV37A1N24-S	Machine Screw Truss Phillips 1/4-20 x 3/4" Scotch Grip	4
23	VV41A1A20	Phillips Countersunk Screw	-
24	VV83A9G24	Type F #4-40 x 5/8" zp Tapping Screw Pan Phillips	16
0.5	\ M././.O.A.O.O.	Type B #10 x 3/4" z.p.	8
25	VW10A08	Flat Washer 1/4" SAE zp	4
26	QP23-0735	Control Board Stand-off Pin	8
27	QDF7908	Black Plug 1" #SQR-1-10-14	4
28	QDF9018	"AMP" Contact Pin #66103-2	20
29	QDF299X	Adhesive Neoprene 1/4 x 3/4	.1666
30	QDF2042	Cable Clamp "AMP" 206070-1	2
31	QDF2043	14-Positions Circular Connector	2

Power Cord with Straight Molded North American Hospital

Grade Plug- OL250053

For Reference Only: OL250053-00

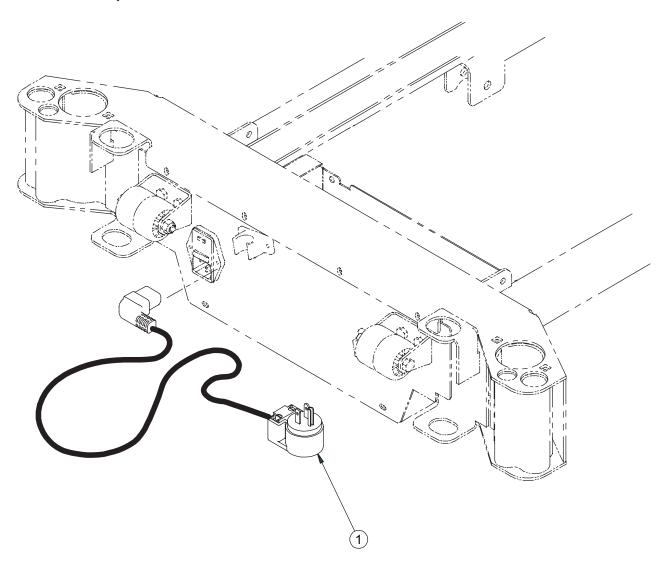


For Reference Only: OL250053-01

Item	Part No.	Part Name	Qty.
1	QDF8066	Power Cord with Straight Molded North American Hospital	
		Grade Plug	1

Power Cord with 90° North American Grade Plug - OL250055

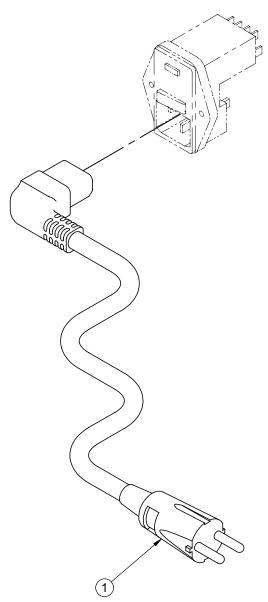
For Reference Only: OL250055-00



For Reference Only: OL250055-01

Item	Part No.	Part Name	Qty.
1	QDF8066-90D	Power Cord with 90°	
		North American Grade Plug	1

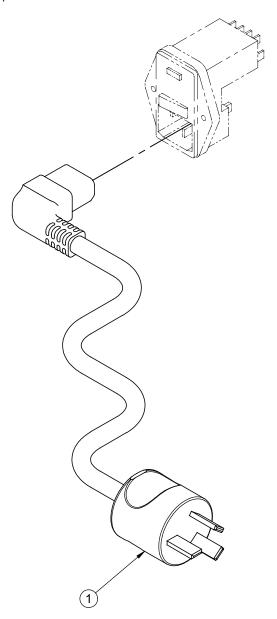
For Reference Only: OL250058-01



For Reference Only: OL250058-02

Item	Part No.	Part Name	Qty.
1	QDF8066-EUR	Power Cord and	
		Continental Europe Plug	1

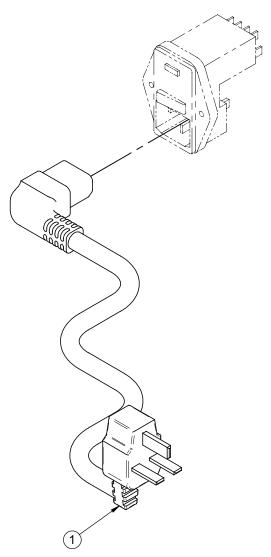
For Reference Only: OL250059-01



For Reference Only: OL250059-02

Item	Part No.	Part Name	Qty.
1	QDF8066-AUS	Power Cord and Australia Plug	1

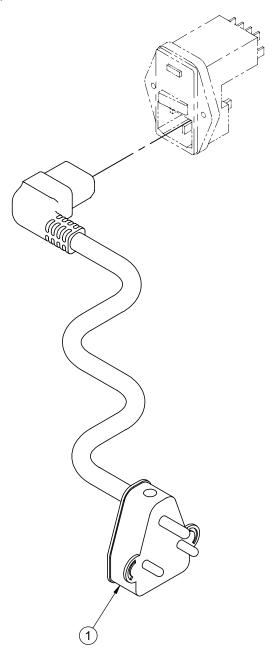
For Reference Only: OL250060-01



For Reference Only: OL250060-02

Item	Part No.	Part Name	Qty.
1	QDF8066-ROY	Power Cord and	
		United Kingdom Plug	1

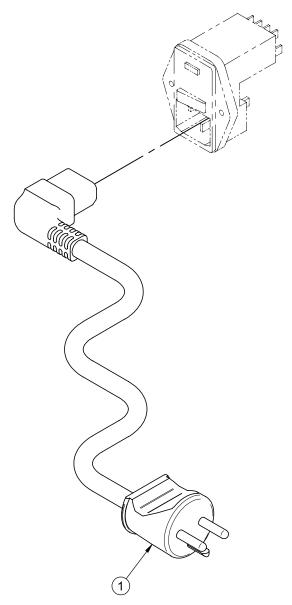
For Reference Only: OL250061-01



For Reference Only: OL250061-02

Item	Part No.	Part Name	Qty.
1	ODE8066-IND	Power Cord and India Plug	1

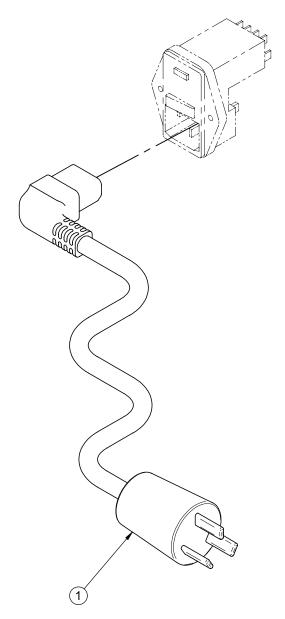
For Reference Only: OL250067-01



For Reference Only: OL250067-02

Item	Part No.	Part Name	Qty.
1	QDF8066-DAN	Power Cord and Denmark Plug	1

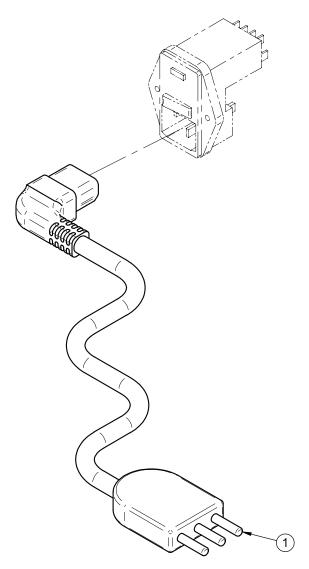
For Reference Only: OL250068-01



For Reference Only: OL250068-02

•	Item	Part No.	Part Name	Qty.
	1	QDF8066-ISR	Power Cord and	
			Israel Plug	1

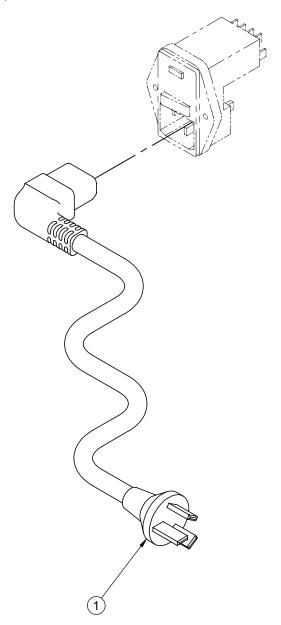
For Reference Only: OL250069-01



For Reference Only: OL250069-02

Ite	em	Part No.	Part Name	Qty.
	1 (QDF8066-ITA/CHILI	Power Cord and Italy/Chili Plug	1

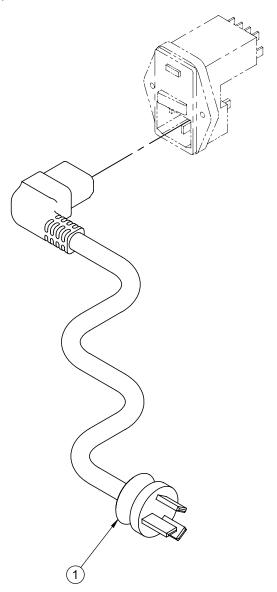
For Reference Only: OL250073-01



For Reference Only: OL250073-02

Item	Part No.	Part Name	Qty.
1	QDF8066-ARG	Power Cord and	
		Argentina Plug	1

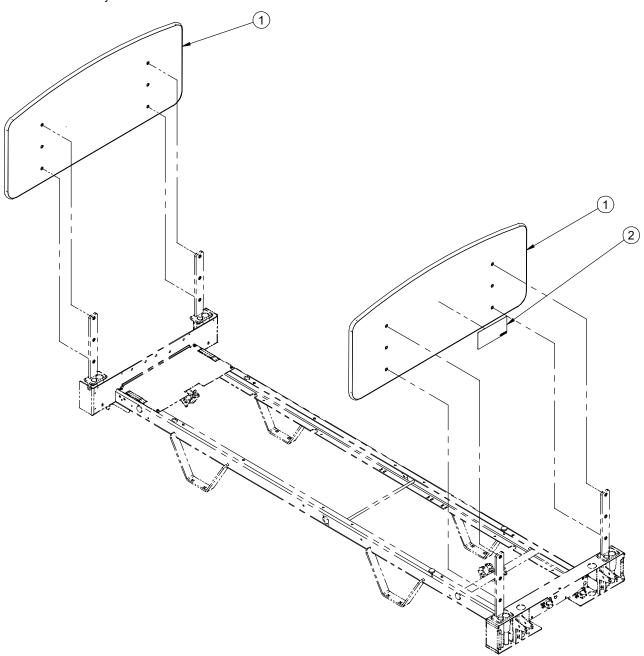
For Reference Only: OL250074-01



For Reference Only: OL250074-02

Item	Part No.	Part Name	Qty.
1	QDF8066-CHI	Power Cord and China Plug	1

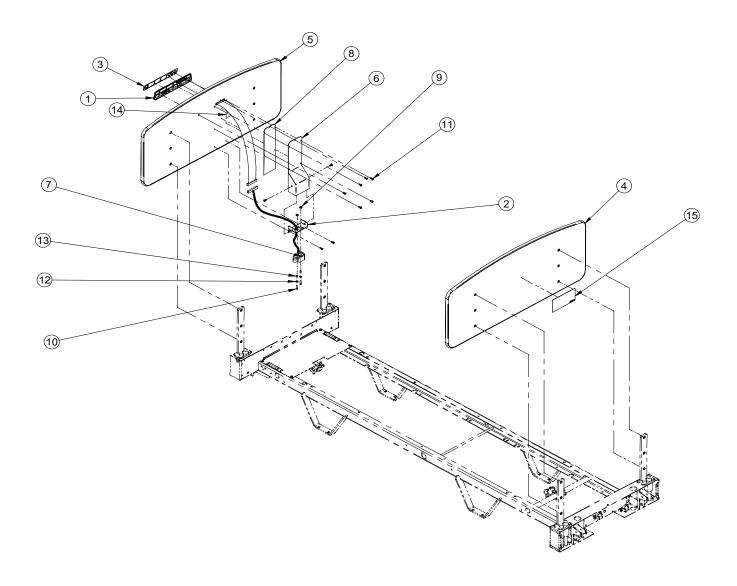




For Reference Only: OP230074XXXX-01

Item	Part No.	Part Name	Qty.
1	23-0122XXXX	MDF Laminated Board	2
2	QE14376-T	Sticker - Head Board Installation	1

For Reference Only: OP230086-04

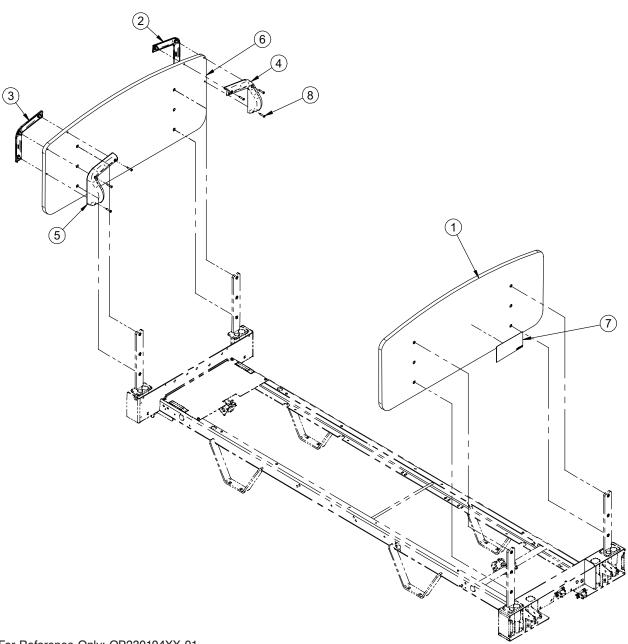


MDF Laminated Boards with Control Panel - OP230086

For Reference Only: OP230086XXXXG-01

Item	Part No.	Part Name	Qty.
1	QP17-0127-07	Nurse Control Board	1
2	17-0144G	Connector Support	1
3	QDF17-0180	Nurse Control Membrane	1
4	23-0122XXXX	MDF Laminated Board	1
5	23-0262XXXX	MDF Laminated Foot Board	
		for Control Panel	1
6	23-0334G	Support Cover	1
7	QDF17-0139	Extension Cord for Membrane	1
8	QE71-0751	Foot Board Isolating Strip	1
9	VE30A1E	Nylon Hexagonal Locknut	
		#8-32 z.p.	2
10	VV33A1E24	Machine Screw Pan Phillips	
		#8-32 x 3/4" z.p.	2
11	VV83A9G16	Tapping screw pan Phillips	
		Type B #10 x 1/2" z.p.	10
12	VW11A9E	Flat Washer #8	2
13	VW60C081005	Sleeve	2
14	QDF7826	3M Adhesive Tape #950 x 1"	.2500
15	QE14376-T	Sticker - Headboard Installation	1

For Reference Only: OP230194-00

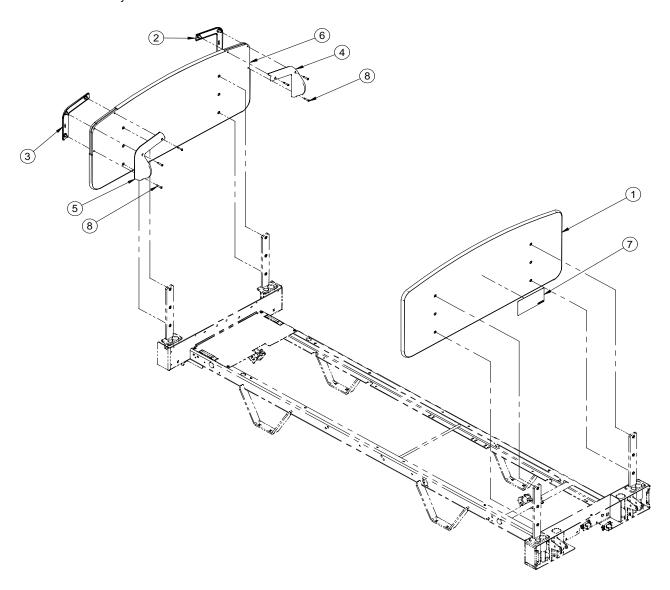


For Reference Only: OP230194XX-01

Item	Part No.	Part Name	Qty.
1	XB23-0218XX	Melamine Board without	
		Control Panel	1
2	QP23-0472-07	Outer Right Handle	1
3	QP23-0473-07	Outer Left Handle	1
4	QP23-0474-07	Inner Right Handle	1
5	QP23-0475-07	Inner Left Handle	1
6	23-0514XX	Melamine Foot Board	1
7	QE14376-T	Sticker - Headboard Installation	1
8	VV23A1G32HL	Tapping Screw Pan Phillips	1
		Type High-Low #10 x 1" z.p.	6

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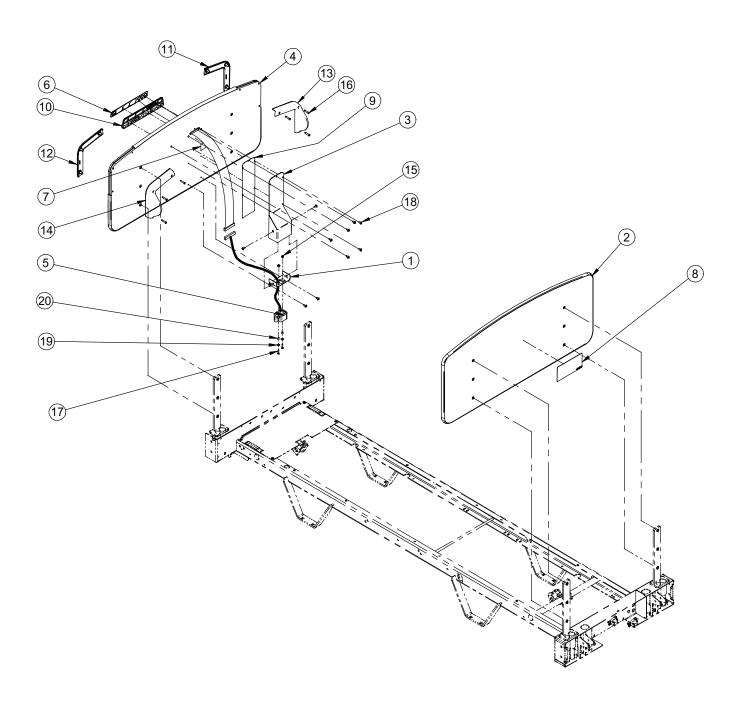
For Reference Only: OP230195-00



For Reference Only: OP230195XXXX-01

Item	Part No.	Part Name	Qty.
1	23-0122XXXX	MDF Laminated Board	1
2	QP23-0472-07	Outer Right Handle	1
3	QP23-0473-07	Outer Left Handle	1
4	QP23-0474-07	Inner Right Handle	1
5	QP23-0475-07	Inner Left Handle	1
6	23-0516XXXX	Laminated Board	1
7	QE14376-T	Sticker - Headboard Installation	1
8	VV23A1G32HL	Tapping Screw Pan Phillips Type	
		High-Low #10 x 1" z.p.	6

For Reference Only: OP230196-01

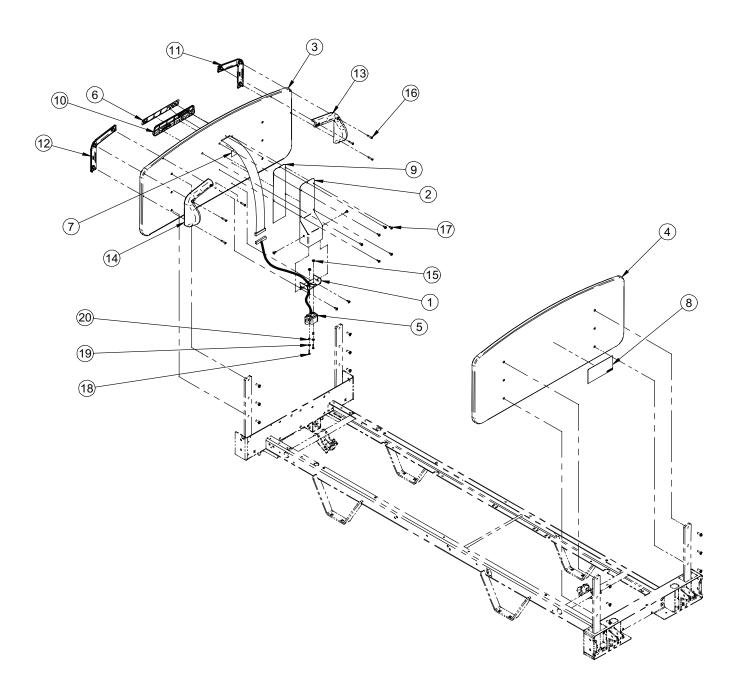


MDF Laminated Boards with Control Panel - OP230196

For Reference Only: OP230196XXXXG-02

Item	Part No.	Part Name	Qty.
1	QP17-0127-07	Nurse Control Board	1
2	17-0144G	Connector Support	1
3	QDF17-0180	Nurse Control Membrane	1
4	23-0122XXXX	MDF Laminated Board	1
5	23-0519XXXX	Laminated Foot Board	
		with Control Panel	1
6	23-0334G	Support Cover	1
7	QDF17-0139	Extension Cord for Membrane	1
8	QE71-0751	Foot Board Isolating Strip	1
9	VE30A1E	Nylon Hexagonal Locknut	
		#8-32 z.p.	2
12	VW11A9E	Flat Washer #8	2
13	VW60C081005	Sleeve	2
14	QDF7826	3M Adhesive Tape #950 x 1"	1
15	QE14376-T	Sticker - Headboard Installation	1
16	VV33A1E24	Machine Screw Pan Phillips	
		#8-32 x 3/4" z.p.	2
17	QP23-0474-07	Inner Right Handle	1
18	VV27A9G16	Tapping Screw Truss Phillips	
		Type A #10 x 1/2" z.p.	10
19	QP23-0475-07	Inner Left Handle	1
20	QP23-0472-07	Outer Right Handle	1
21	QP23-0473-07	Outer Left Handle	1
22	VV23A1G32HL	Tapping Screw Pan Phillips	
		Type High-Low #10 x 1" z.p.	6

For Reference Only: OP230206-00

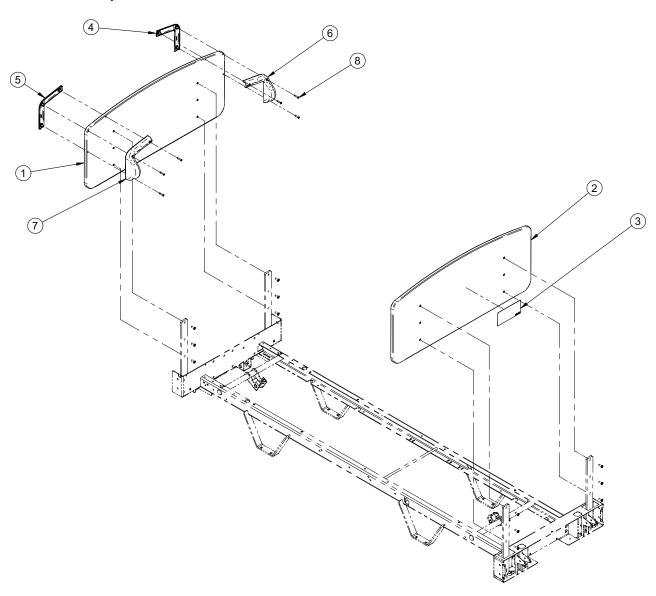


Solid Wood Boards with Control Panel - OP230206

For Reference Only: OP230206XX-01

Item	Part No.	Part Name	Qty.
1	17-0144G	Connector Support	1
2	23-0334G	Support Cover	1
3	23-0633XX	Foot Solid Core Laminated Board	1
4	23-0634XX	Head Solid Core Laminated Board	1
5	QDF17-0139	Extension Cord for Membrane	1
6	QDF17-0180	Nurse Control Membrane	1
7	QDF7826	3M Adhesive Tape #950 x 1"	1
8	QE14376-T	Sticker - Headboard Installation	1
9	QE71-0751	Foot Board Isolating Strip	1
10	QP17-0127-07	Nurse Control Board	1
11	QP23-0472-07	Outer Right Handle	1
12	QP23-0473-07	Outer Left Handle	1
13	QP23-0474-07	Inner Right Handle	1
14	QP23-0475-07	Inner Left Handle	1
15	VE30A1E	Nylon Hexagonal Locknut	
		#8-32 z.p.	2
16	VV23A1G32HL	Tapping Screw Pan Phillips	
		Type High-Low #10 x 1" z.p.	6
17	VV27A9G16	Tapping Screw Truss Phillips	
		Type A #10 x 1/2" z.p.	10
18	VV33A1E24	Machine Screw Pan Phillips	
		#8-32 x 3/4" z.p.	2
19	VW11A9E	Flat Washer #8	2
20	VW60C081005	Sleeve	2

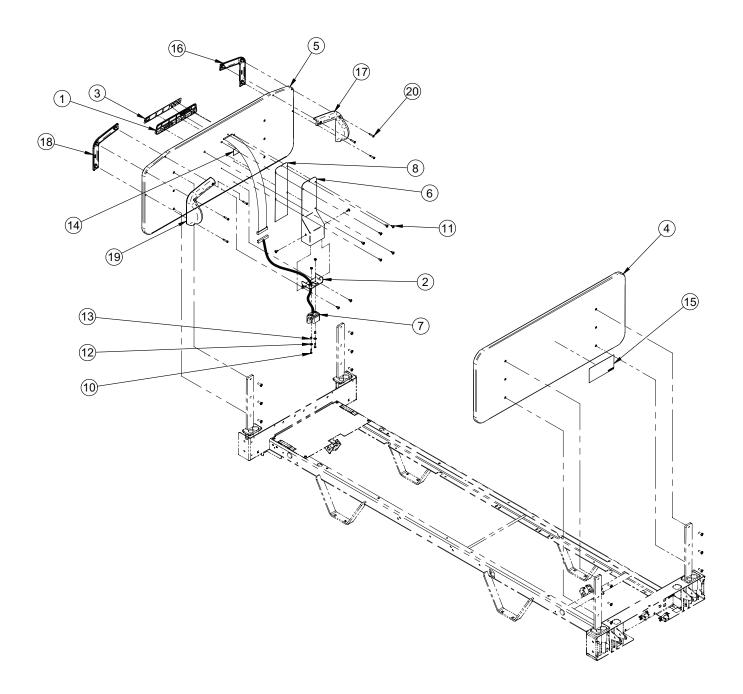
For Reference Only: OP230214-00



For Reference Only: OP230214XX-

Item	Part No.	Part Name	Qty.
1	23-0660XX	Solid Wood Board without	
		Control Panel S.A.	1
2	23-0634XX	Head Solid Core Laminated Board	1
3	QE14376-T	Sticker - Headboard Installation	1
4	QP23-0472-07	Outer Right Handle	1
5	QP23-0473-07	Outer Left Handle	1
6	QP23-0474-07	Inner Right Handle	1
7	QP23-0475-07	Inner Left Handle	1
8	VV23A1G32HL	Tapping Screw Pan Phillips	
		Type High-Low #10 x 1" z.p.	6

For Reference Only: OP230216-00



Solid Core Boards with Flat Top and Control Panel - OP230216

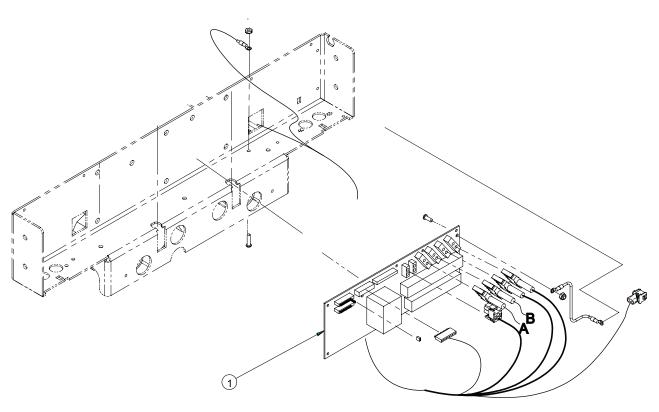
For Reference Only: OP230216XX-

Item	Part No.	Part Name	Qty.
1	QP17-0127-07	Nurse Control Board	1
2	17-0144G	Connector Support	1
3	QDF17-0180	Nurse Control Membrane	1
4	23-0683XX	Solid Core Head Boards S.A.	1
5	23-0681XX	Solid Core Foot Boards with	
		Control Panel S.A.	1
6	23-0334G	Support Cover	1
7	QDF17-0139	Extension Cord for Membrane	1
8	QE71-0751	Foot Board Isolating Strip	1
9	VE30A1E	Nylon Hexagone Locknut #8-32 z.p.	2
10	VV33A1E24	Machine Screw Pan Phillips	
		#8-32 x 3/4" z.p.	2
11	VV27A9G16	Tapping Screw truss Phillips	
		Type A #10 x 1/2" z.p.	10
12	VW11A9E	Flat Washer #8	2
13	VW60C081005	Sleeve	2
14	QDF7826	3M Adhesive Tape #950 x 1"	.1666
15	QE14376-T	Sticker - Headboard Installation	
16	QP23-0472-07	Outer Right Handle	
17	QP23-0474-07	Inner Right Handle	
18	QP23-0473-07	Outer Left Handle	
19	QP23-0475-07	Inner Left Handle	1
20	VV23A1G32HL	Tapping Screw Pan Phillips	
		Type High-Low #10 x 1" z.p.	6

Recycling Passport



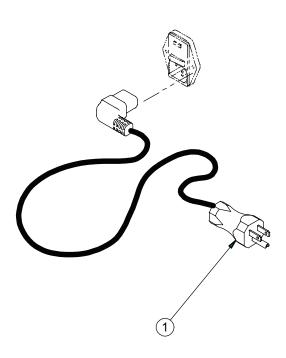




Item	Recycling/Material Code	Qty
1	Control Board (QDF23-0315)	1



Assembly Part Number: OL250053



Item	Recycling/Material Code	Qty
1	QDF8066-EUR 120V Power Cord and Continental Europe Plug (OL250058)	1
1	QDF8066 120V Power Cord with Straight Molded North American Hospital Grade Plug (OL250053)	1
1	QDF8066-90D 120V Power Cord with 90° North American Hospital Grade Plug (OL250055)	1
1	QDF8066-AUS 120V Power Cord and Australia Plug (OL250059)	1
1	QDF8066-ROY 120V Power Cord and United Kingdom Plug (OL250060)	1
1	QDF8066-IND 120V Power Cord and India Plug (OL250061)	1
1	QDF8066-DAN 120V Power Cord and Denmark Plug (OL250067)	1
1	QDF8066-ISR 120V Power Cord and Israel Plug (OL250068)	1
1	QDF8066-ITA 120V Power Cord and Italy Plug (OL250069)	1
1	QDF8066-ARG 120V Power Cord and Argentina Plug (OL250073)	1
1	QDF8066-CHI 120V Power Cord and China Plug (OL250074)	1

Warranty

LIMITED WARRANTY

Stryker Medical Division, a division of Stryker Corporation, warrants to the original purchaser the Electrical MedSurg Bed, model FL23E, to be free from defects in material and workmanship for a period of one (1) year after date of delivery. Stryker's obligation under this warranty is expressly limited to supplying replacement parts and labor for, or replacing, at its option, any product which is, in the sole discretion of Stryker, found to be defective. 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

SERVICE CONTRACT PROGRAMS

Stryker offers the following service contract programs:

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

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