

Manual
MedSurg Bed
Model FL23M

stryker[®]

Maintenance Manual



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



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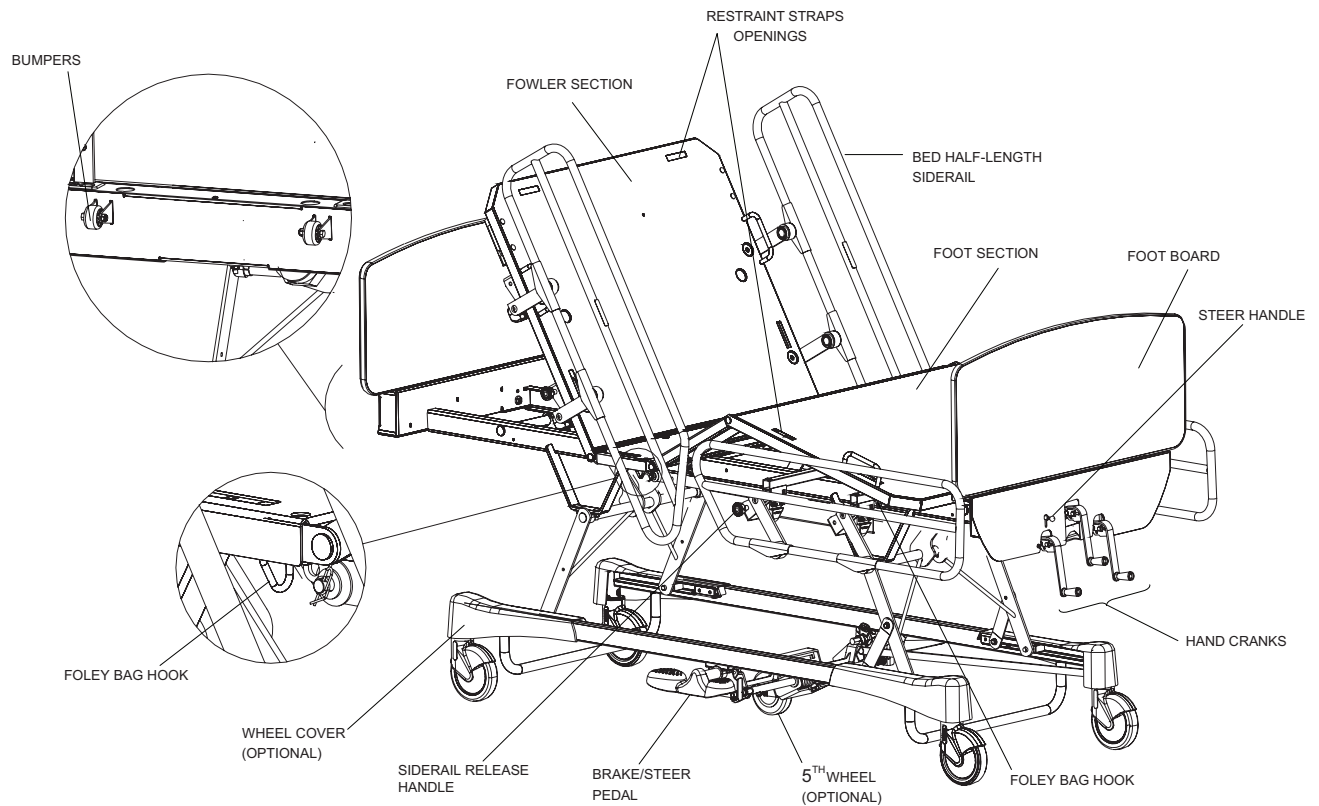
Introduction

INTENDED USE

This manual is designed to assist in the maintenance of Stryker's FL23M Manual MedSurg bed. Read it thoroughly before beginning any service on the bed. Qualified maintenance personnel should be able to refer to this manual at all time when servicing the bed.


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

PRODUCT ILLUSTRATION



Introduction

SPECIFICATIONS

	Maximum Weight Capacity*		500 lbs	227 kg
	Note: The Maximum Weight Capacity is the total weight of the patient, mattress and accessory.			
Overall Length/Width	Half-Length Siderails Raised	90.4" x 41.3"	2296 x 1049 mm	
	Full-Length Siderails Raised	90.4" x 39.9"	2296 x 1013 mm	
Weight with Boards		390 lbs	177 kg	
Patient Sleep Surface		35 x 78"	89 x 198 cm	
Recommended Mattress Size	Length/Width	35 x 78" or 80"	89 x 198 cm or 203 cm	
	Maximum Thickness	6"	15.24 cm	
Minimum/Maximum Bed Height		15" to 29"	38.1 to 73.66 cm	
Fowler Angle		0° to 62°		
Knee Gatch Angle		0° to 32°		
Trendelenburg / Reverse Trendelenburg		+14° to -14°		

Stryker reserves the right to change specifications without notice.

The specifications listed above are approximate and may slightly vary from unit to unit.

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, Consult Accompanying Documentation



Safe Working Load Symbol

Setup Procedures

LUBRICATION REQUIREMENTS

Listed below are the lubrication points. Lubrication must be done on a yearly basis.

WARNING

The use of greases other than the one recommended (OG2) could lead to deterioration of the critical parts and to mechanism failure, resulting in injury to the patient and/or user and damage to the bed.

CAUTION

This bed uses oil-impregnated shoulder spacers at hinge points. Do not lubricate these shoulder spacers. When shoulder spacers are found worn, replace them.

ANNUAL CHECKLIST

___ Hi-Lo Mechanism (see Figure 2.2A on page 9)

- Lubricate the threads of the two Hi-Lo screws. Grease only the threads the molded nut moves over. Activate the Hi-Lo mechanism to spread the grease evenly.
- Lubricate the path and the clutch fork on the clutch coupling.

___ Actuator Screws (see Figure 2.2B on page 9)

- Lubricate the Fowler and Knee Gatch actuator screws. Refer to page 28 for the lubrication procedure.

___ Hand Cranks (see Figure 2.2C on page 9)

- Clean and grease the retractable pin joint.

Serial Numbers:		

Completed by: _____

Date: _____

Setup Procedures

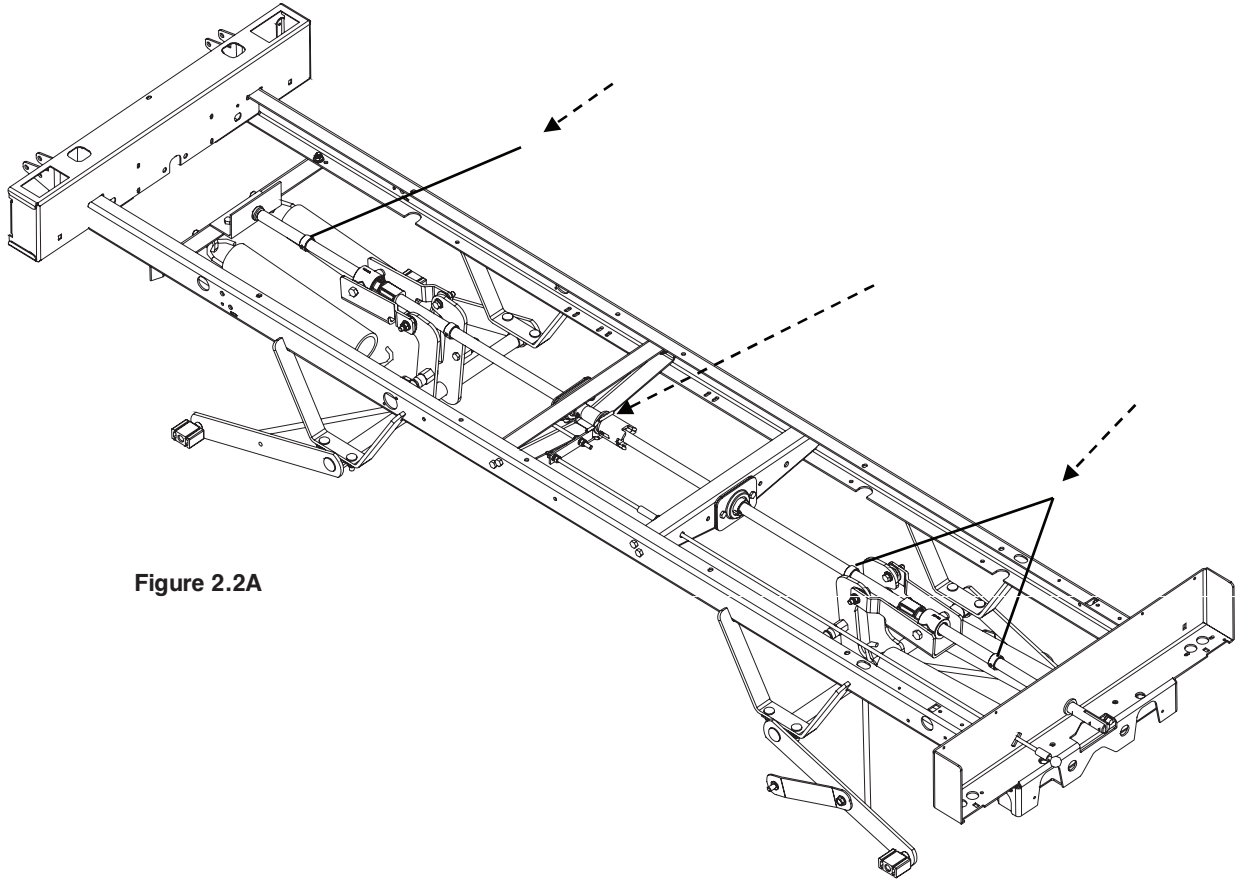


Figure 2.2A

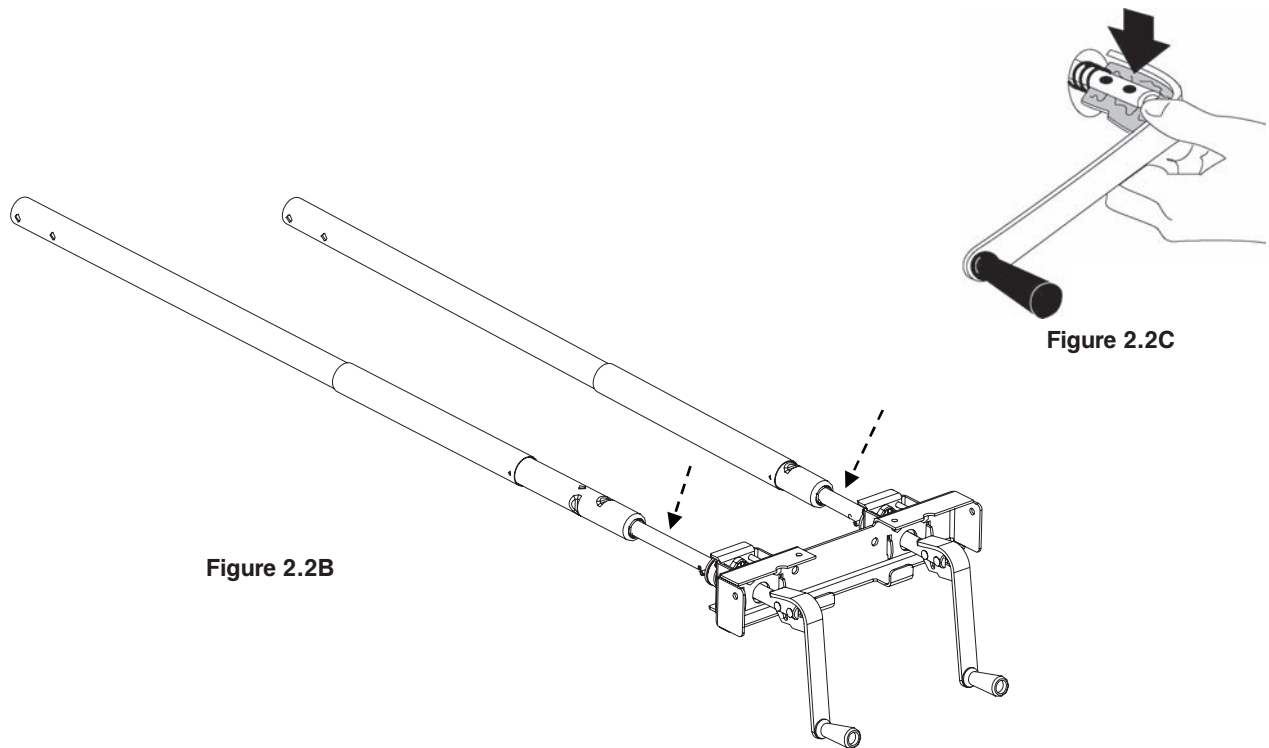


Figure 2.2C

Figure 2.2B

Preventative Maintenance Program

WARNING

When servicing, use only identical 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. **Do not** lubricate these spacers, replace as needed.
- _____ Inspect the whole mechanism of each siderail; ensure that all mobile and fixed parts are properly fastened. A siderail that is difficult to operate, does not latch in high position or latches with difficulty is often due to loose fasteners. Tighten bolts and nuts properly.
- _____ Check the operation of each siderail: they must pivot easily and latch in high position immediately. In locked position, the siderail must remain totally still and offer solid support; they must drop when the release lever is used.
- _____ On both sides of the bed, depress fully down the side of the pedal identified with a red sticker and ensure that the brakes are applied and the bed immobilized. Toggle the pedal to neutral and ensure the brakes are released.
- _____ On both sides of the bed, depress fully down the side of the pedal identified with a green sticker and ensure that the steer mode - bed steer caster or optional 5th wheel - is engaged. Toggle the pedal to neutral and ensure that the steer mode disengages.
- _____ Check the Trendelenburg positioning. Refer to the “Trendelenburg Positioning” section in the Operations Manual to engage these positions.
- _____ Check the foot prop rod for proper operation.
- _____ No cracks or splits in the boards.
- _____ Bumpers tightly secured to frame and working properly.
- _____ No rips or cracks in mattress cover. Replace if so.
- _____ All casters roll properly. Check caster for cuts, wear, etc. Remove accumulated grime.
- _____ Inspect and lubricate, if necessary, the bed lubrication points described and illustrated in the “Lubrication Requirements” section on [page 8](#).

Note

Preventative maintenance may need to be performed more frequently if the bed is used intensively.

Serial Number:		

Completed by: _____

Date: _____

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.

Germicidal disinfectant, used as directed, and/or Chlorine Bleach products are not considered mild detergents. These products are corrosive in nature and may cause damage to your bed if used improperly. If these types of products are used, 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 this product's warranty.

Bed Cleaning

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

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 (also zip fasteners and cover inner surface if mattresses have zip fasteners) regularly for signs of damage. If the mattress cover is heavily stained or soiled, or is torn, remove the mattress from service.

Cleaning

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

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) or Canada 1 888 233-6888 for availability and pricing.

Description	Part Number	Parts List
Siderail Components		
Half-Length Siderail Transfer Plate - Right	23-0439G	OL230207G/CG
Half-Length Siderail Transfer Plate - Left	23-0425G	OL230207G/CG
PVC Protector - Foot Siderail	23-0478	OL230205
PVC Protector - Head Siderail	23-0617	OL230205
Mattress Support Components		
Lateral Mattress Retainer	QP14034-07	L23-011G
IV Pole Holder	QP17-0121-07	L23-010G
Caster		
6" with Lock Mechanism	RD25038807	OL230048 / OL230050
6" without Lock Mechanism	RD25049307	OL230048 / OL230050
6" with Steer Mechanism	RD25049607	OL230048 / OL230050
5 th Wheel 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)	QP25-0022-07	OL230101
Wheel Cover - Left (Optional)	QP25-0039-07	OL230101
Wheel Cover - Velcro Fastener (Optional)	25-0550	OL230101
Brake/Steer Pedal	QP21-3761-11	OL230042G / OL230043G
Miscellaneous		
Grey Spray Paint	DDCAP-GSP	
Shoulder Spacer	QDF17-0020	
Nylon Cable Tie	QDF9518	

Maintenance Procedures

WARNING

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.

Only qualified maintenance personnel should perform the procedures detailed in this maintenance manual. Failure to observe this restriction can result in serious damage to material and/or severe injury to people.

Note

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

SIDERAIL - RAIL REPLACEMENT

Required Tools:

- Small Slotted Head Screwdriver
- Long Nose Pliers
- Rubber Mallet
- 7/16” Socket Wrench

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 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 (B).

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.

Maintenance Procedures

SIDERAIL - RAIL REPLACEMENT (CONTINUED)

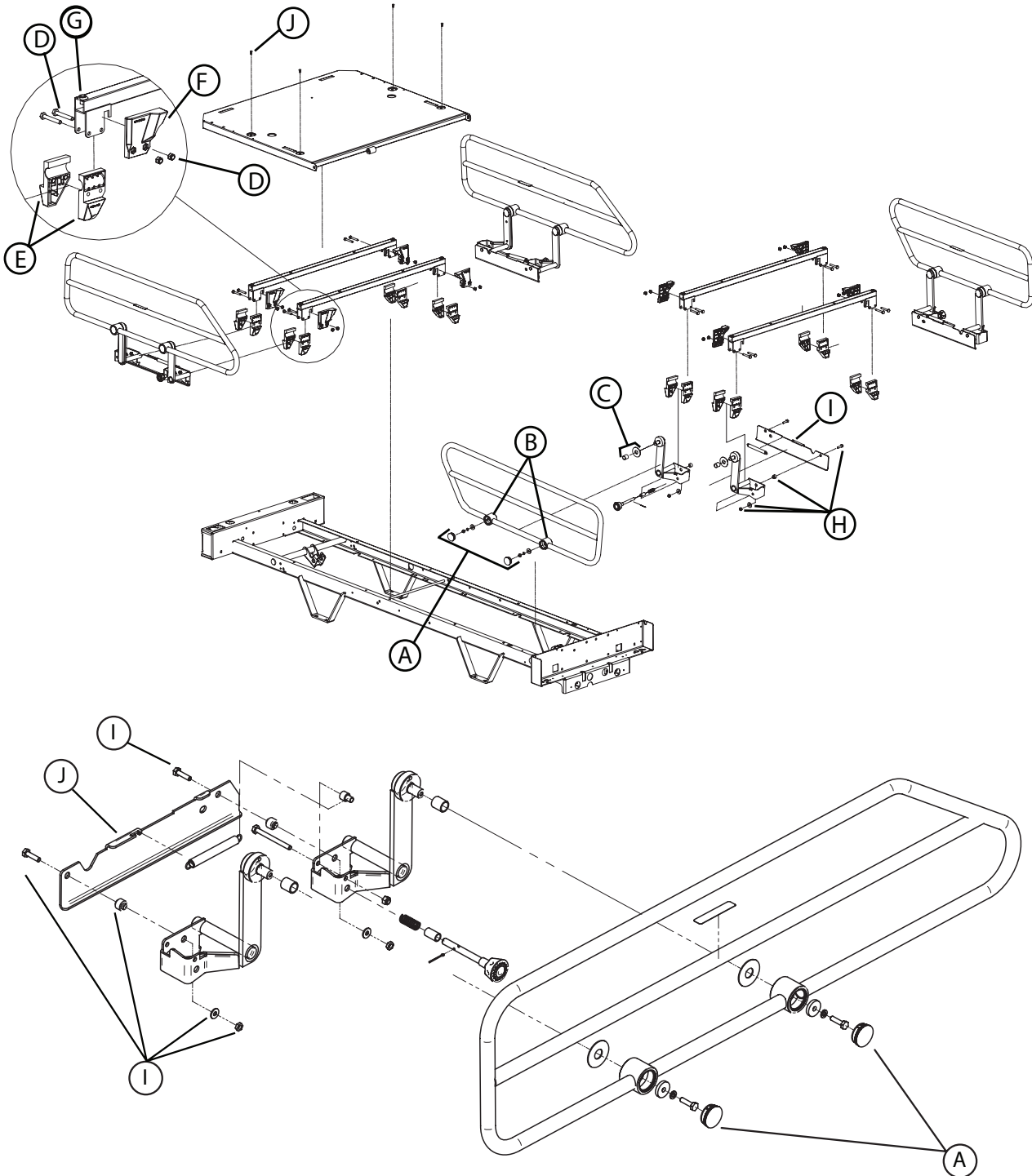


Figure 3.1A

Maintenance Procedures

SIDERAIL ASSEMBLY REPLACEMENT

Required Tools:

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

Procedure:

Note

Unless otherwise indicated, refer to Figure 3.1A on [page 14](#) for the illustration of the references contained in the following replacement procedure.

1. Raise the bed fully up and apply the brakes.
2. Depending on the position of the siderail needing repair, place the mattress support sections as follows:
 - **Head Siderail:** Raise the head section fully up.
 - **Foot Siderail:** Lower completely the head section. Raise the thigh section fully up, then lift and fold back the foot section toward the head end of the bed.
3. Raise the siderail needing repair.
4. Using a 7/16" socket wrench and 7/16" wrench, remove the two locknuts and bolts (D) holding the two half bushings (E), the stopper (F) and the siderail mechanism from their location - hold the bushings to prevent them from falling to the ground.

Note

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

5. Reverse the above steps to install the replacement siderail assembly.
6. Verify the siderail for proper operation before returning the bed to service.

Maintenance Procedures

TRANSFER PLATE REPLACEMENT

Required Tools:

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

Procedure:

Note

Unless otherwise indicated, refer to Figure 3.1A on [page 14](#) for the illustration of the references contained in the following replacement procedure.

1. Raise the bed fully up and apply the brakes.
2. Depending on the type and the position of the siderail, place the mattress support sections as follows:
 - **Head Siderail:** Raise the bed fully up.
 - **Foot Siderail:** Lower completely the head section. Raise fully up the thigh section, then lift and fold back the foot section toward the head end of the bed.
3. Lower the siderail needing repair.
4. Using a 7/16" socket wrench and 7/16" wrench, remove the two locknuts, bushings, washers and bolts (H) holding the transfer plate (I) to the siderail mechanism.

Note

At assembly, tighten the two locknuts to a 75 lbf/in torque.

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

Maintenance Procedures

MATTRESS SUPPORT

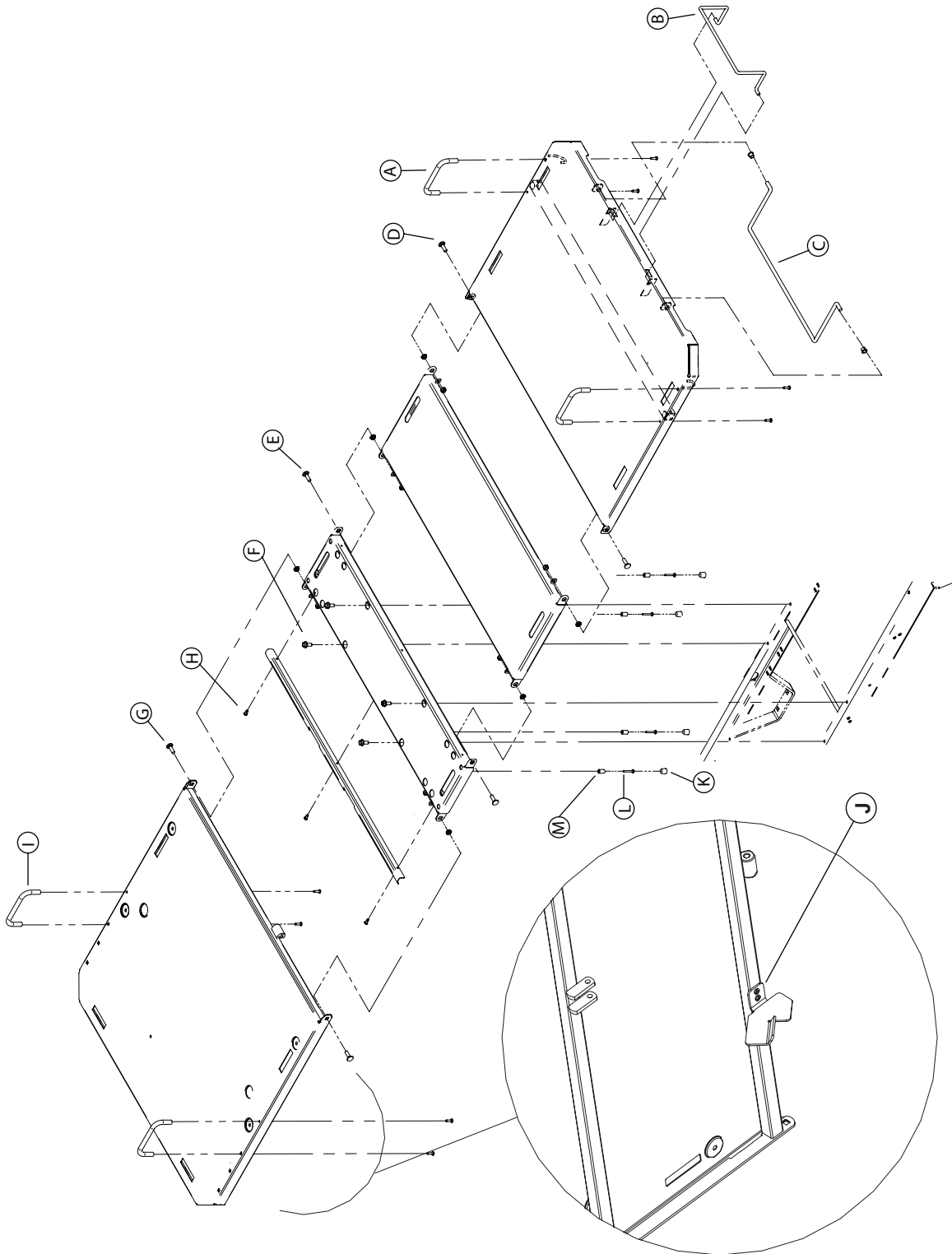


Figure 3.2A

Maintenance Procedures

MATTRESS SUPPORT - FOOT SECTION REPLACEMENT

Required Tools:

- Phillips Screwdriver
- 1/2" Wrench
- Bungee Cords

Procedure:

1. Run the bed fully up and apply the brakes. Flatten all sections of the mattress support.
2. Lower the siderails.
3. Lift and fold back the foot section toward the head end of the bed. Secure the section to the bed using bungee cords.
4. Using a Phillips screwdriver, remove the lateral mattress retainers (A).
5. Remove the foot end mattress retainer (B).
6. Remove the foot prop rod (C).
7. Remove the bungee cords and replace the foot section to horizontal position.
8. Using a 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.
9. Reverse the above steps to install the replacement foot section.
10. Verify the foot section movement before returning the bed to service.

Maintenance Procedures

MATTRESS SUPPORT - THIGH SECTION REPLACEMENT

Required Tools:

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

Procedure:

Note

Unless otherwise indicated, refer to Figure 3.2A on [page 17](#) for the illustration of the references contained in the following procedure.

1. Run the bed fully up and apply the brakes. Flatten all sections of the mattress support.
2. Lower the siderails.
3. Lift and fold back the foot section toward the head end of the bed. Secure the section to the bed using bungee cords.
4. Using long nose pliers, remove the rue ring cotter, washers and clevis pin (A, Figure 3.2E on [page 26](#)) linking the thigh section lever arms to the thigh actuator tube.
5. Remove the bungee cords and bring the foot section back to flat position.
6. Using a 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.
7. Reverse the above steps to install the replacement thigh section.
8. Verify the thigh section movement before returning the bed to service.

Maintenance Procedures

MATTRESS SUPPORT - SEAT SECTION REPLACEMENT

Required Tools:

- 1/2" Long Socket Wrench
- 1/2" Wrench
- Phillips Screwdriver
- Torque Wrench

Procedure:

Note

Unless otherwise indicated, refer to Figure 3.2A on [page 17](#) for the illustration of the references contained in the following procedure.

1. Raise the bed fully up and apply the brakes. Flatten the mattress support.
2. Lower the siderails.
3. Using a 1/2" long socket wrench, remove the four screws (F) holding the seat section to the frame.

Note

Once removed, the thread-rolling bolts must be first screwed in manually before tightening them to a 135 lbf/in (14.7 Nm) torque using a torque wrench.

4. Using a 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.
5. Turn the seat section up side down and, using a Phillips screwdriver, remove the three screws (H) holding the protective plate to the seat section. Keep the plate for the replacement seat section.
6. Reverse the above steps to install the replacement seat section.

Maintenance Procedures

MATTRESS SUPPORT - HEAD SECTION REPLACEMENT

Required Tools:

- Phillips Screwdriver
- Strap
- 1/2" Wrench (2)

Procedure:

Note

Unless otherwise indicated, refer to Figure 3.2A on [page 17](#) for the illustration of the references contained in the following procedure.

1. Raise the bed fully up 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. Raise the head section fully up and attach it securely to the bed using a strap.
5. Using a Phillips screwdriver, remove the two lateral mattress retainers (I) and keep them for the replacement head section.

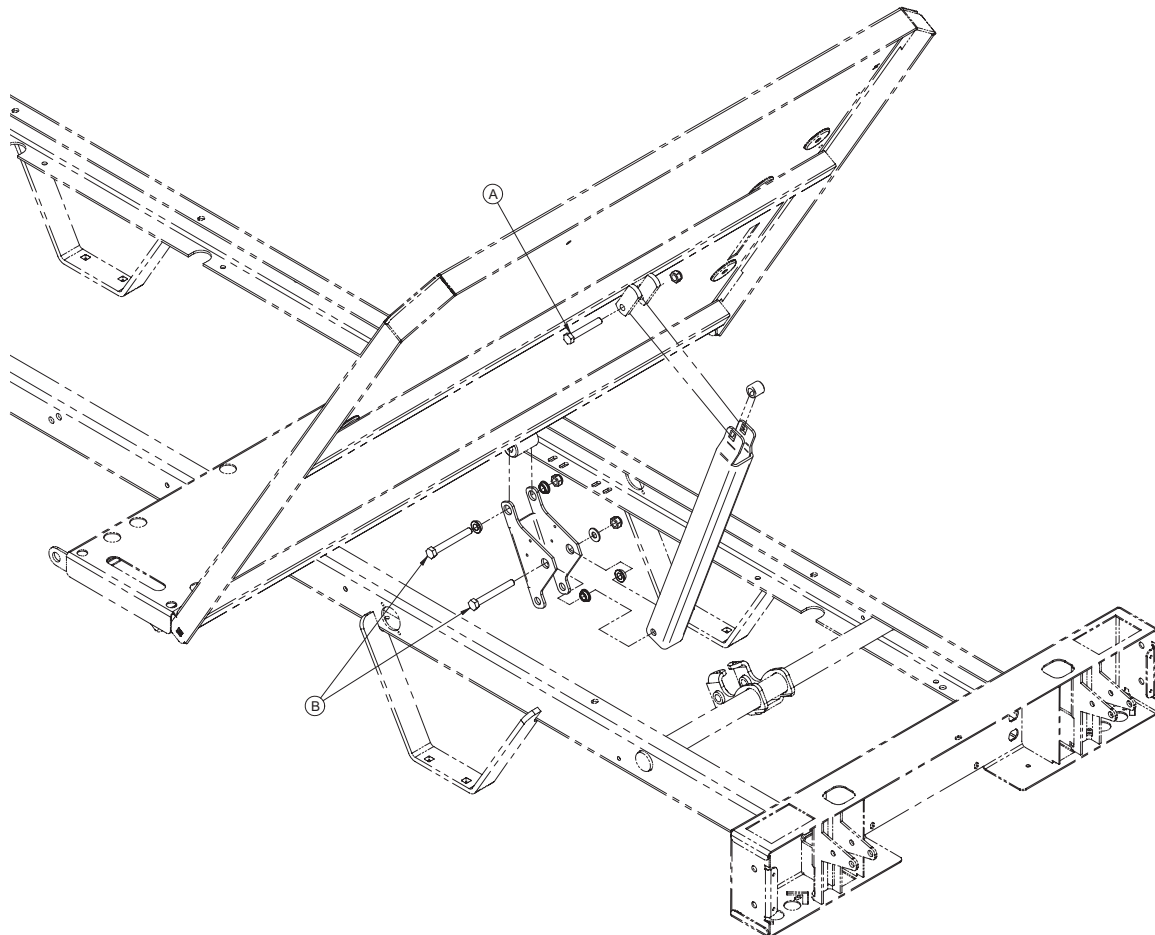


Figure 3.2B

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Maintenance Procedures

MATTRESS SUPPORT - HEAD SECTION REPLACEMENT (CONTINUED)

6. Using two 1/2" wrenches, remove the locknut, spacer and bolt (A) holding the upper part of the compression bar to the head section and lay it down.
7. 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.
8. Remove the strap and manually lower the head section completely.
9. Lower the head siderails, and using a Phillips screwdriver to remove the four screws (J, Figure 3.1A, [page 14](#)) holding the two siderail supports to the head section. Let the supports/siderails assembly rest on the frame.
10. Using a 1/2" wrench, remove the two locknuts, flat washers, shoulder spacers and bolts (G, Figure 3.2A, [page 17](#)) linking the head section to the seat section. Remove the defective head section.
11. Reverse the above steps to install the replacement head section.
12. Verify the head section movement before returning the bed to service.

Maintenance Procedures

CRANK

Required Tools:

- Vise Grip
- Phillips Screwdriver
- Hammer
- Drill and 1/4" Drill Bit
- 3/16" or 1/4" Punch
- OG2 Grease
- Riveting Machine / Pair of pliers
- Medium Strength Thread Locker

Procedure:

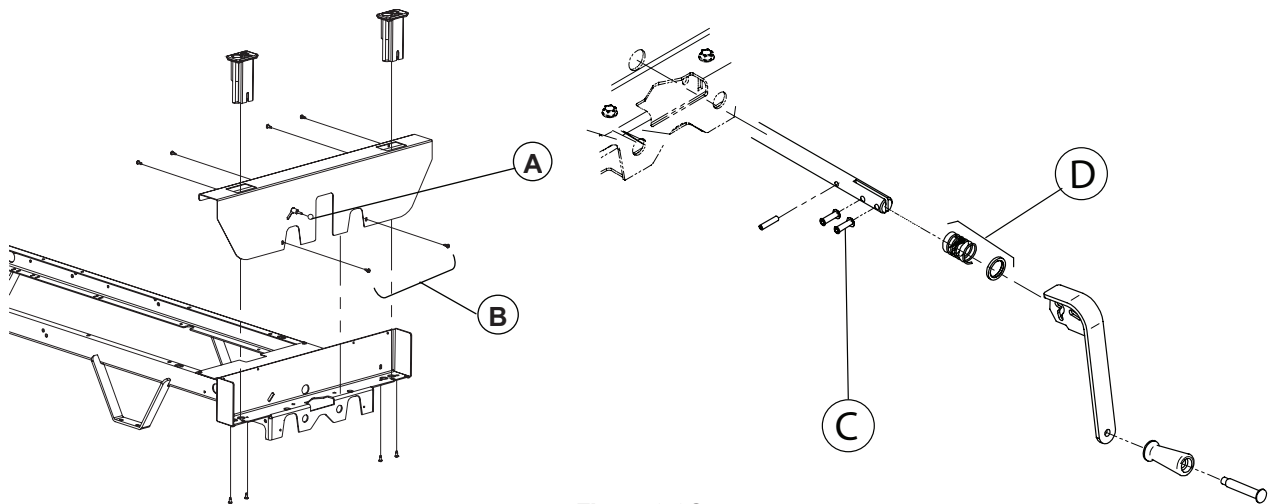


Figure 3.2C

1. Fully raise the bed and apply the brakes. Remove the foot board.
2. Using a pair of Vise Grip, remove the Trendelenburg rod knob (A).

Note

The threads of the rod were coated with a threadlocker to prevent the knob from loosening. Be careful not to break the knob when removing it. Apply threadlocker to the rod threads before replacing the knob.

3. Using a Phillips screwdriver, remove the ten (10) screws (B) holding the foot end casing cover to the frame. Remove the foot end casing cover.
4. Support the end of the crank on your knee and mill both rivet heads (C) using a drill and a 1/4" drill bit.
5. Punch rivet out using a 3/16" or a 1/4" punch and a hammer. Remove the crank. Leave the nylon washer and the spring (D) in place.
6. Lubricate the mobile part of the replacement crank with OG2 grease and place the crank on the shaft.
7. Insert two new rivets and lock them in position using a riveting machine or a pair of pliers.
8. Check the operation of the replacement crank before reassembling the parts and returning the bed to service.

Maintenance Procedures

FOWLER ACTUATOR REPLACEMENT

Required Tools:

- Bungee Cords
- 7/16" Wrench
- Phillips Screwdriver
- 7/16" Socket and Ratchet
- Long Nose Pliers

Procedure:

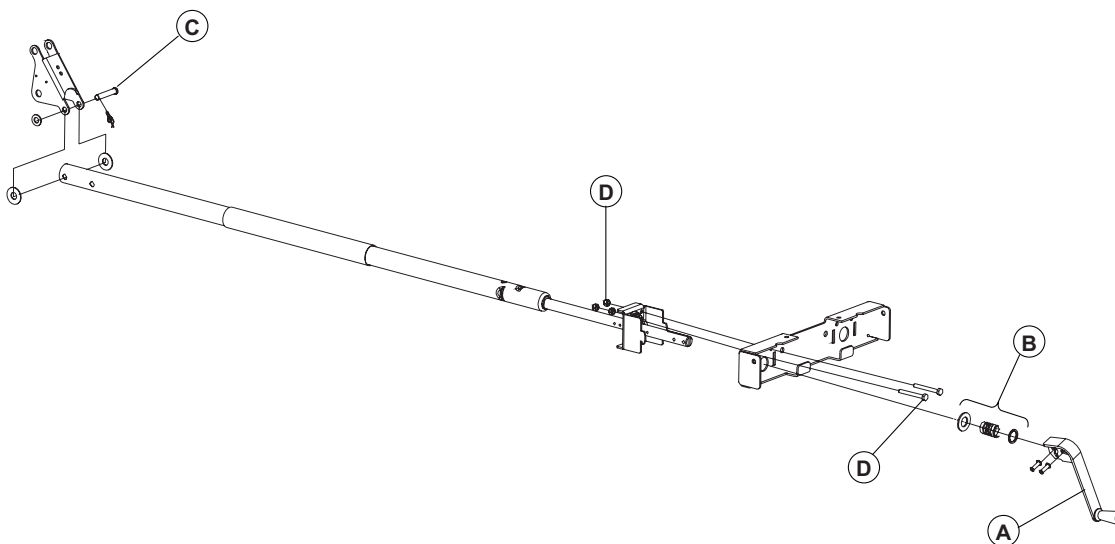


Figure 3.2D

1. Fully raise the bed and apply the brakes. Remove the foot board.
2. Lift the foot section, fold it back toward the head end of the bed and attach it to the bed using bungee cords.
3. Lift the head section, fold it toward the foot end of the bed and attach it to the bed using bungee cords.
4. Using a Phillips screwdriver, remove the 4 screws attaching the foot protective plate to the bed frame.
5. Remove the foot end casing cover (see steps 2 and 3 of the "Crank" replacement procedure, [page 23](#)).
6. Bring the Fowler section back to horizontal position and support the actuator tube using a bungee cord passed under it and attached to both sides of the frame.
7. Remove the crank (A) (see steps 4 and 5 of the "Crank" replacement procedure, [page 23](#)). Keep the two nylon washers and the spring (B).

Note

Remember to replace the washers and the spring on the screw before installing the crank.

8. Using long nose pliers, remove the Rue ring cotter, washers and clevis pin (C) linking the head actuator tube to the head section lever.
9. Using a 7/16" socket, a ratchet and a 7/16" wrench, remove the locknuts, bolts (D) holding the Fowler actuator assembly to the foot end casing.

Maintenance Procedures

FOWLER ACTUATOR REPLACEMENT (CONTINUED)

Procédure :

Note

Tighten the two nuts (D) using medium strength.

10. Lift the bearing support to disengage it from the frame and remove the whole assembly by moving it back toward the head end of the bed.
11. Reverse the preceding steps to install the replacement actuator and proceed as follows to properly adjust it:
 - a. Temporarily install the crank on the screw and turn it to raise the Fowler section then, lower the section until it comes to rest on the frame. The crank should be in a vertical or near vertical position when the Fowler section rests on the frame.
 - b. Install definitely the crank ensuring that the black handle is positioned downward.

Note

The adjustment of the actuator is correct when the handle is positioned vertically or near vertical when the Fowler section reaches the frame and rests on it.

12. Verify the Fowler section by raising and lowering it several times before returning the bed to service.

Maintenance Procedures

KNEE GATCH ACTUATOR REPLACEMENT

Required Tools:

- Bungee Cords
- 7/16" Wrench
- Phillips Screwdriver
- 7/16" Socket and Ratchet
- Long Nose Pliers

Procedure:

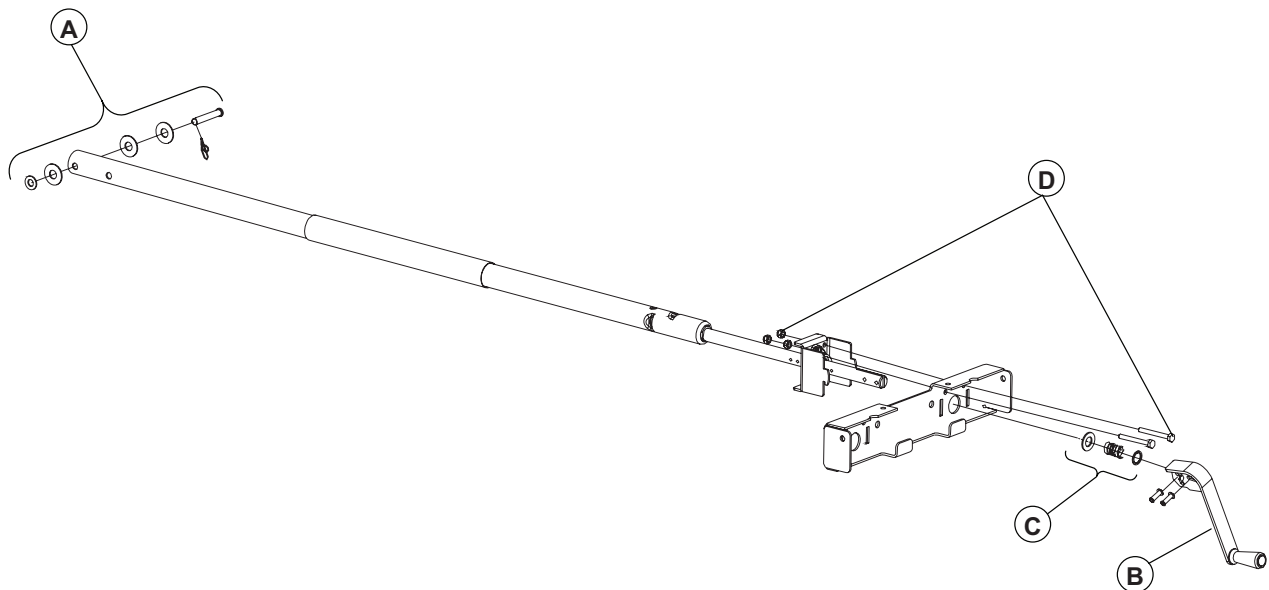


Figure 3.2E

1. Fully raise the bed and apply the brakes. Remove the foot board.
2. Lift the foot section, fold it back toward the head end of the bed and attach it to the bed using a bungee cord. The Knee Gatch section must be in horizontal position.
3. Using a Phillips screwdriver, remove the 4 screws attaching the foot protective plate to the bed frame.
4. Support the actuator tube using a bungee cord passed under it and attached to both sides of the frame.
5. Remove the foot end casing cover (see steps 2 and 3 of the "Crank" replacement procedure, [page 23](#)).
6. Remove the crank (B) (see steps 4 and 5 of the "Crank" replacement procedure, [page 23](#)). Keep the two nylon washers and the spring (C).

Note

Remember to replace the washers and the spring on the screw before installing the crank.

7. Using long nose pliers, remove the Rue ring cotter, washers and clevis pin (A) holding the actuator tube to the Knee Gatch section lever. Disengage the actuator tube.

Maintenance Procedures

KNEE GATCH ACTUATOR REPLACEMENT (CONTINUED)

Note

When replacing the thigh actuator, gently turn the tube in either direction to align the tube holes with those of the thigh section lever arms.

8. Using a 7/16" socket, a ratchet and a 7/16" wrench, remove the two locknuts and bolts (D) holding the Knee Gatch actuator assembly.

Note

Tighten the two nuts (D) using medium strength.

9. Lift the bearing support to disengage it from its location and remove the whole assembly by moving it back toward the head end of the bed.
10. Reverse the preceding steps to install the replacement actuator and proceed as follows to properly adjust it:
 - a. Temporarily install the crank on the screw and turn it to raise the Knee Gatch section then, lower the section until it comes to rest on the frame. The crank should be in vertical, or near vertical position when the Knee Gatch section rests on the frame.
 - b. Install definitely the crank ensuring that the black nylon handle is positioned downward.

Note

The adjustment of the actuator is correct when the handle is positioned vertically or near vertical when the Knee Gatch section reaches the frame and rests on it.

11. Verify the Knee Gatch section by raising and lowering it several times before returning the bed to service.

Maintenance Procedures

LUBRICATION OF THE FOWLER AND KNEE GATCH ACTUATOR SCREWS

Required Tools:

- Phillips Screwdriver
- Bungee Cords
- OG2 Grease
- Grease Brush

Procedure:

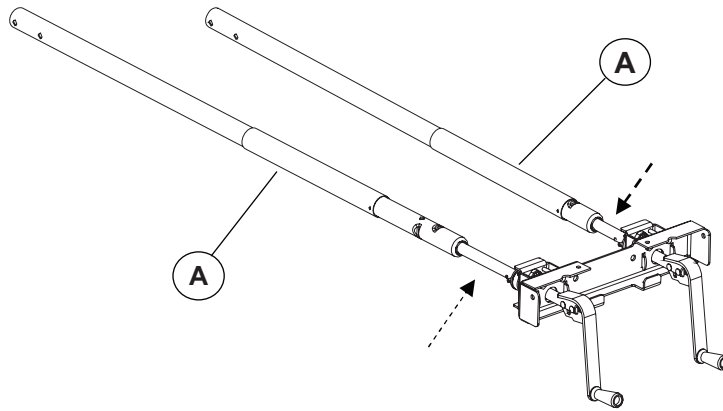


Figure 3.2F

1. Fully raise the bed. Apply the brakes.
2. Fully raise the Fowler section (in this position, the Fowler actuator will reach its maximum extension) and lower the Knee Gatch section to flat (in this position, the Knee Gatch actuator will reach its maximum extension).
3. Manually fold the foot section back toward the head end of the bed. Secure the position using the bungee cords.
4. Using a Phillips screwdriver, remove the screws attaching the foot cover plate to the bed frame.
5. Disengage the gray dust tube (A) from the spring pin holding it in place and slide it back to uncover the screw threads.
6. Apply grease all over the screw threads with a brush making sure the grease reaches the bottom of the threads. Replace the dust cover and the foot cover plate.
7. Remove the bungee cords and replace the foot section to flat position. Run both Fowler and Knee Gatch sections up and down completely a few times to spread the grease evenly before returning the bed to service.

Maintenance Procedures

HI-LO MECHANISM - MOLDED NUT AND/OR FOOT TRANSLATION SCREW REPLACEMENT

Required Tools:

2 Jack Stands	Bungee Cords	1/2" Wrench
9/16" Wrenches (2)	Phillips Screwdriver	Hammer
Ratchet / 1/2" Socket	7/32" Punch	1/8" Allen Key
Rubber Hammer	Medium Strength Threadlocker	1/16" Allen Key

Procedure:

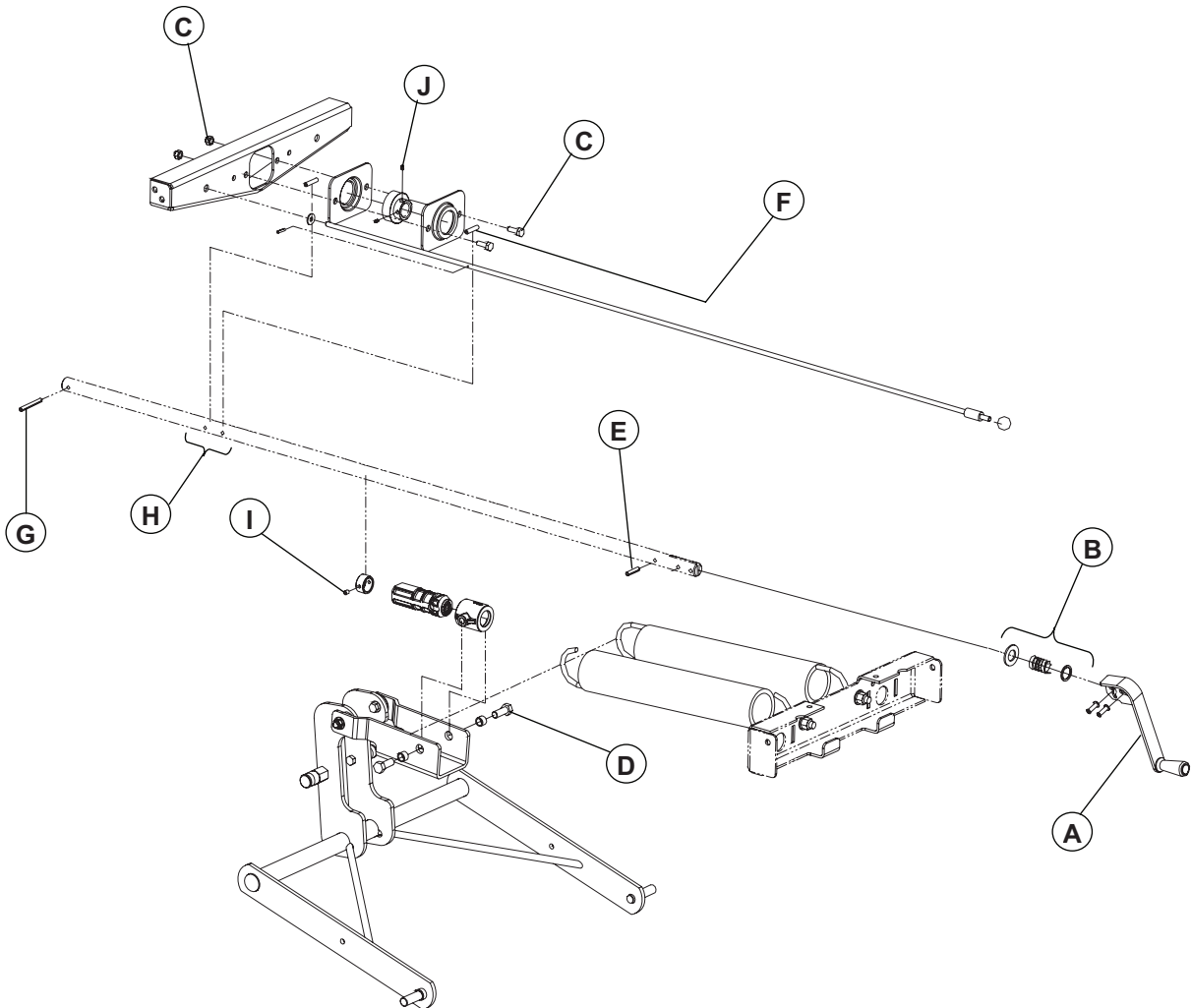


Figure 3.3A

1. Fully raise the bed and apply the brakes. Remove the foot board.
2. Fully raise the Knee Gatch section. Lift the foot section, fold it back toward the head of the bed and attach it to the bed using bungee cords.
3. Using a Phillips screwdriver, remove the 4 screws attaching the foot protective plate to the bed frame.
4. Place 2 jack stands under the bed Hi-Lo levers.
5. Lower the bed on the 2 jack stands.

Maintenance Procedures

HI-LO MECHANISM - MOLDED NUT AND/OR FOOT TRANSLATION SCREW REPLACEMENT (CONTINUED)

6. Remove the foot end casing cover (see steps 2 and 3 of the “Crank” replacement procedure, [page 23](#)).
7. Remove the crank (A) (Refer to steps 4 and 5 of the “Crank” replacement procedure, [page 23](#)). Keep the two nylon washers and the spring (B).

Note

Remember to replace the washers and the spring on the screw before installing the crank.

8. Using a 1/2” socket, a ratchet and a 1/2” wrench, remove the two locknuts and bolts (C) holding the bearing supports to the frame.
9. Using two 9/16” wrenches, remove the two bolts (D) holding the molded screw and its support to the Hi-Lo harness.

Note

Apply medium strength threadlocker on the screw and on the set screws before replacing the bearing on the screw and tightening the set screws (J).

10. Using a 7/32” punch and a hammer, remove the spring pin (E) from the screw. Remove the foot end screw assembly from its location and lay it on a workbench.
11. Remove all the other spring pins (F, G and H).
12. Using a 1/16” Allen key, loosen the two set screws (I) holding the stop screw and remove it.
13. Using a 1/8” Allen key, loosen the two set screws (J) holding the bearing in place. Disengage and remove the bearing using a rubber hammer. Threadlocker was applied to the screw threads at the assembly line to secure the bearing position.

Note

Apply medium strength threadlocker on the screw and on the set screws before replacing the bearing on the screw and tightening the set screws (J).

14. Remove the defective molded nut from the screw. Install the replacement nut on the screw.
15. Reverse the preceding steps to install on the screw assembly all its components, except the spring pin (E).
16. Reverse the preceding steps to install the replacement screw on the Hi-Lo mechanism, as described below:
 - a. Install the spring pin (E).
 - b. Install the crank (A) (see steps 6 and 7 of the “Crank” replacement procedure, [page 23](#)).
 - c. Install the foot end casing cover.
 - d. Apply the medium strength threadlocker to the rod threads before replacing the knob.
 - e. Install the foot cover plate to the bed frame, screwing in the 4 screws.
17. Verify the Hi-Lo proper operation before returning the bed to service.

Maintenance Procedures

BASE - BRAKE/STEER PEDAL REPLACEMENT

Required Tools:

- 1/2" Socket Wrench
- Soft Hammer
- Torque Wrench

Procedure:

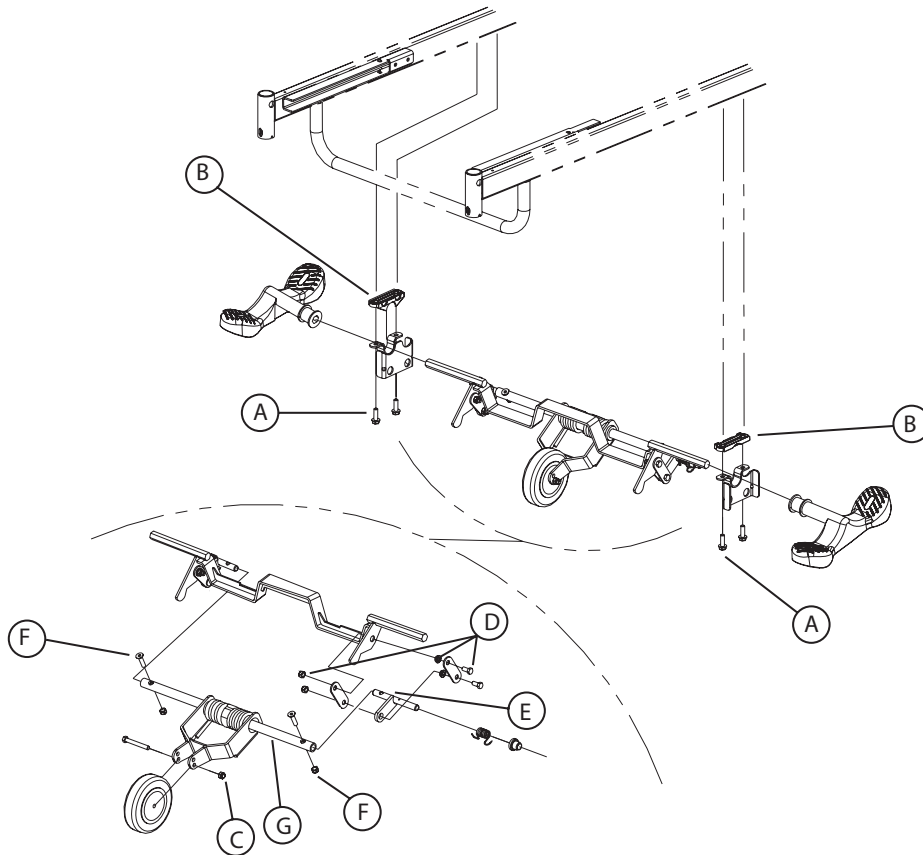


Figure 3.4A

1. Raise the bed fully up.
2. Position the brake/steer pedal to neutral.
3. Using a 1/2" socket wrench, remove the two bolts (A) holding the 5th wheel support or the lever support (A, Figure 3.4B, [page 34](#)) on the side of the defective pedal and lay the support down. Keep the molded spacer (B).

Note

Once removed, the thread-rolling bolts must be first screwed in manually before tightening them to a 135 lbf/in (14.7Nm) torque wrench.

4. Remove the pedal from the activation lever shaft. Use a soft hammer if necessary.
5. Reverse the above steps to install the replacement pedal.

Maintenance Procedures

BASE - 5TH WHEEL CASTER REPLACEMENT (OPTIONAL)

Required Tools:

- 1/2" Wrenches (2)

Procedure:

Note

Unless otherwise indicated, refer to Figure 3.4A on [page 31](#) for the illustration of the references contained in the following replacement procedure.

1. Raise the bed fully up.
2. Position the brake/steer pedal to neutral.
3. Using two 1/2" wrenches, remove the nut and bolt (C) holding the caster to the swing arm.
4. Reverse the above steps to install the replacement caster.

BASE - 5TH WHEEL ASSEMBLY REPLACEMENT (OPTIONAL)

Required Tools:

- 1/2" Wrench
- 1/2" Socket Wrench
- Soft Hammer

Procedure:

Note

Unless otherwise indicated, refer to Figure 3.4A on [page 31](#) for the illustration of the references contained in the following procedure.

1. Raise the bed fully up.
2. Position the brake/steer pedal to neutral.
3. Using a 1/2" socket wrench, remove the two nuts, washers, shoulder spacers and bolts (F1, Figure 3.4B, [page 34](#)) 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.
4. Using a 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.
5. Remove the two brake/steer pedals from the activation lever shafts. Use a soft hammer if necessary.
6. Remove and keep the two locking levers (C, Figure 3.4B, [page 34](#)).
7. Reverse the above steps to install the replacement 5th wheel assembly.
8. Test the 5th wheel for proper operation before returning the bed to service.

Maintenance Procedures

BASE - 5TH WHEEL SWING ARM ASSEMBLY REPLACEMENT (OPTIONAL)

Required Tools:

- 1/2" Socket Wrench
- 1/2" Wrenches (2)
- 3/16" Allen Key

Procedure:

Note

Unless otherwise indicated, refer to Figure 3.4A on [page 31](#) for the illustration of the references contained in the following replacement procedure.

1. Raise the bed fully up.
2. Position the brake/steer pedal to neutral.
3. Using a 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).
4. Using two 1/2" wrenches, remove the nuts, shoulder spacers and bolt (D) holding the torsion lever (E) to the lower part of the counter lever.
5. Using a 1/2" wrench and a 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 the nuts.

6. Disengage the swing arm assembly from the torsion levers and remove it.
7. 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.
8. Reverse the above steps to install the replacement swing arm assembly.
9. Test the 5th wheel for proper operation before returning the bed to service.

Maintenance Procedures

BED CASTER REPLACEMENT

Required Tools:

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

Procedure:

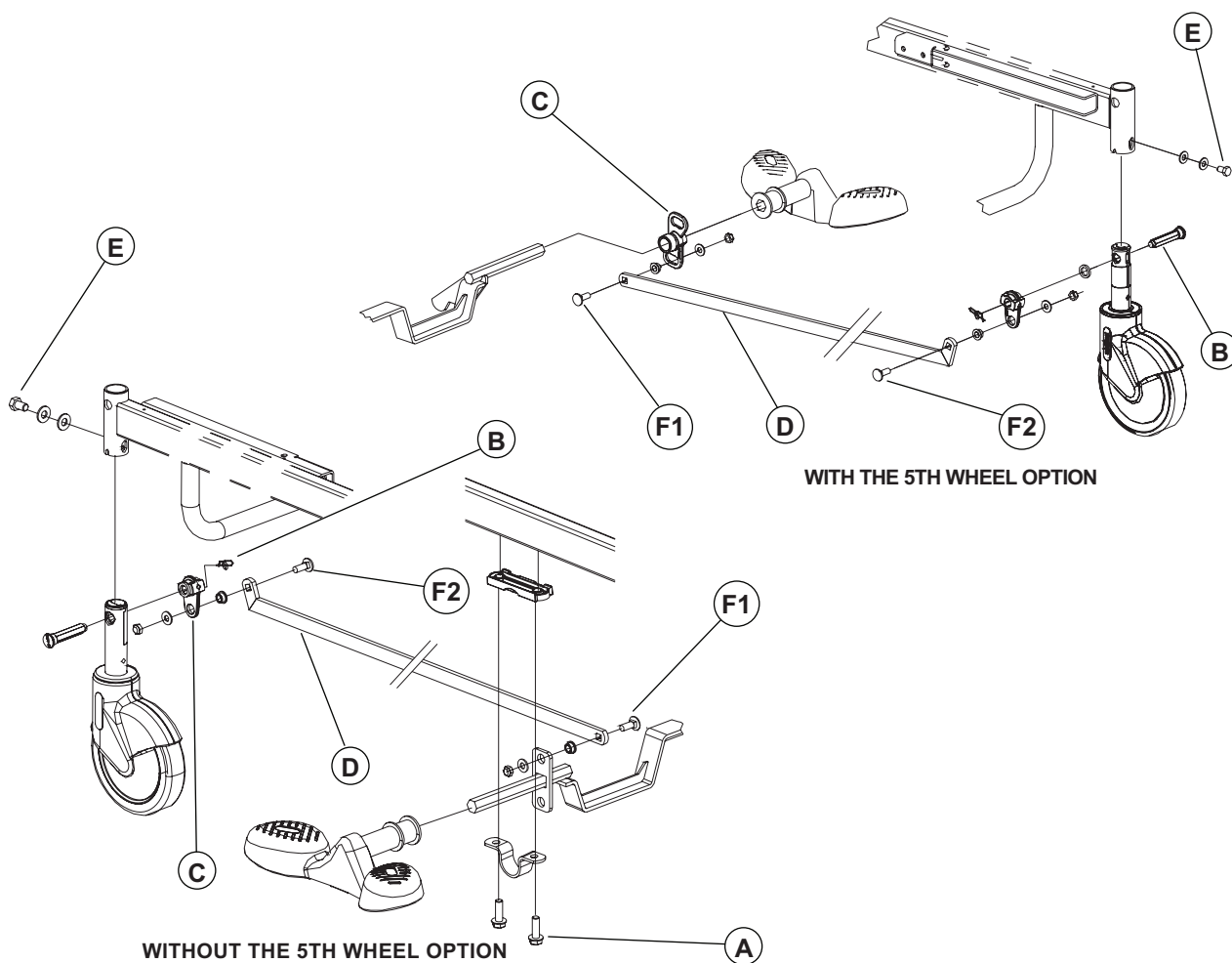
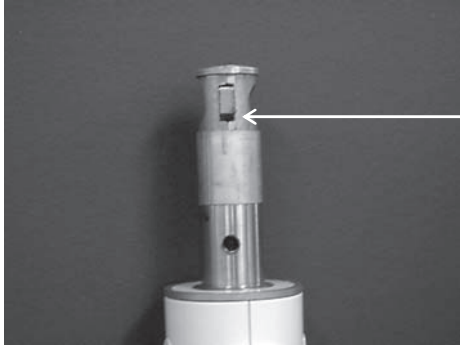


Figure 3.4B

1. Raise the bed fully up.
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. If the caster is part of the braking mechanism, remove, using long nose pliers, the Rue ring, washer and locking axle (B) linking the caster shaft to the locking lever (C) and the brake rod (D).

Maintenance Procedures

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.

7. Using a 1/2" wrench, remove the bolt and washers (E) holding the caster to the base.

Note

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

8. Reverse the above steps to install the replacement caster.
9. 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

Required Tools:

- 1/2" Wrench

Procedure:

Note

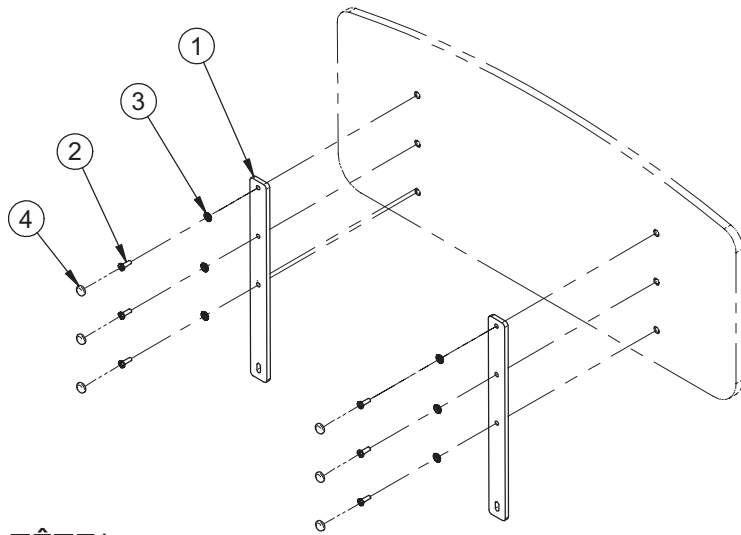
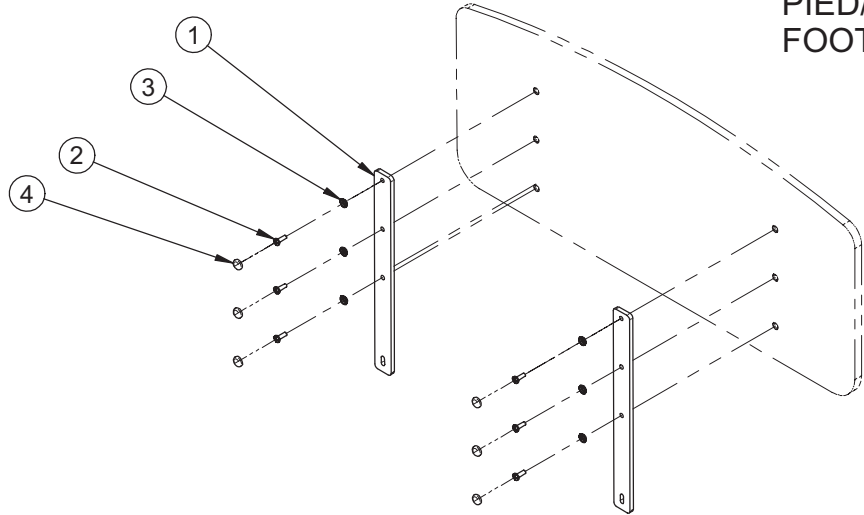
Unless otherwise indicated, refer to Figure 3.4B on [page 34](#) for the illustration of the references contained in the following replacement procedure.

1. Raise the bed fully up.
2. Using a 1/2" wrench, remove the nut, shoulder spacer, washer and bolt (F1, F2) holding each end of the brake rod.
3. Remove the defective rod.
4. Reverse the above steps to install the replacement brake rod.
5. Test the brakes before returning the bed to service.

Post Set - L23-005

For Reference Only: L23-005-03

PIED/
FOOT



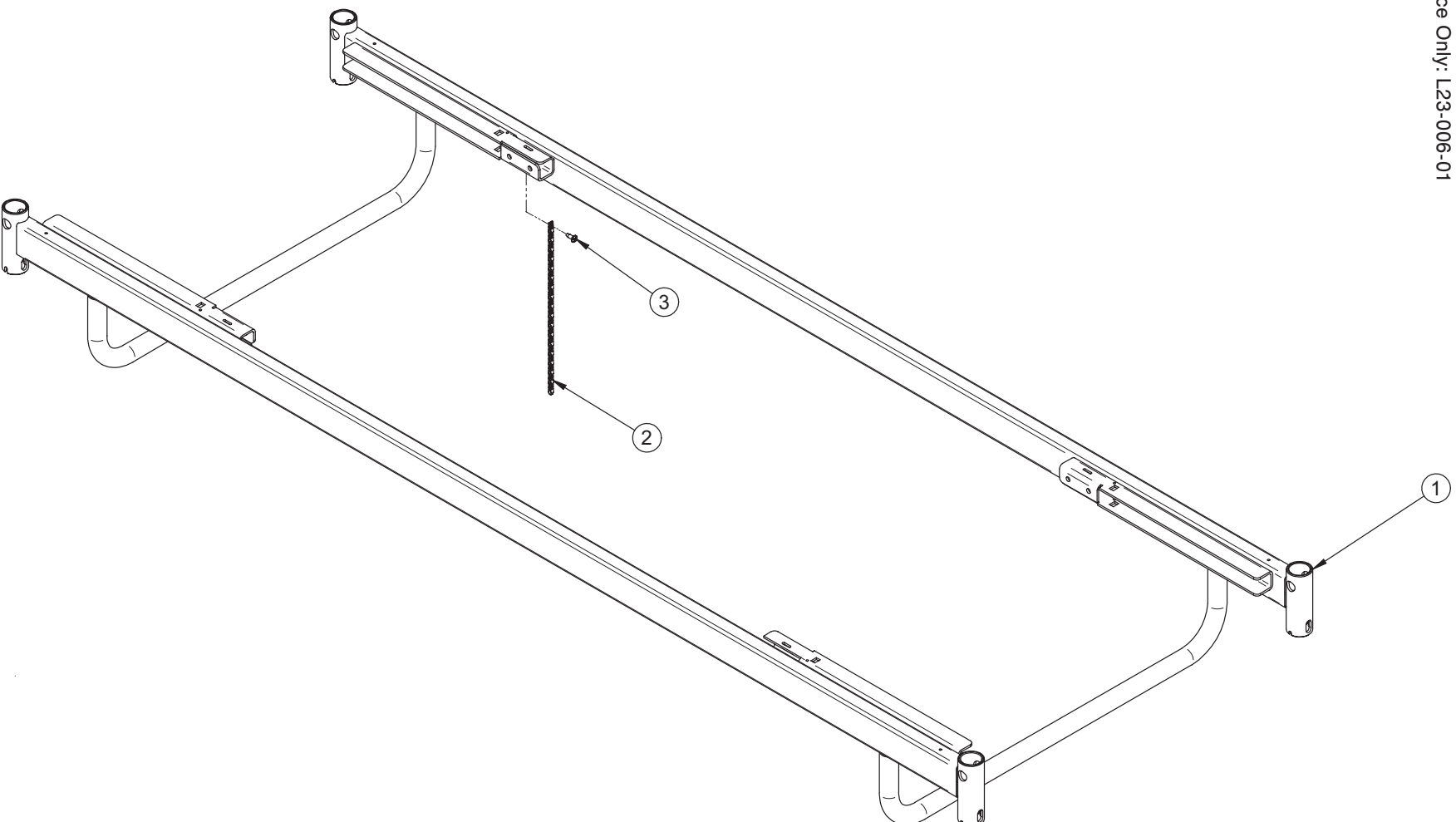
TÊTE/
HEAD

For Reference Only: L23-005G-05

Item	Part No.	Part Name	Qty.
1	23-0124G	Post	4
2	VV33A1N24-S	Machine Screw Pan Head Phillips 1/4-20 x 3/4" Scotch Grip	12
3	QPPF1521	1/4" Diameter Metal Washer	6
4	QPPF1514-1	White Plastic Cap	6

Base - L23-006G

For Reference Only: L23-006-01



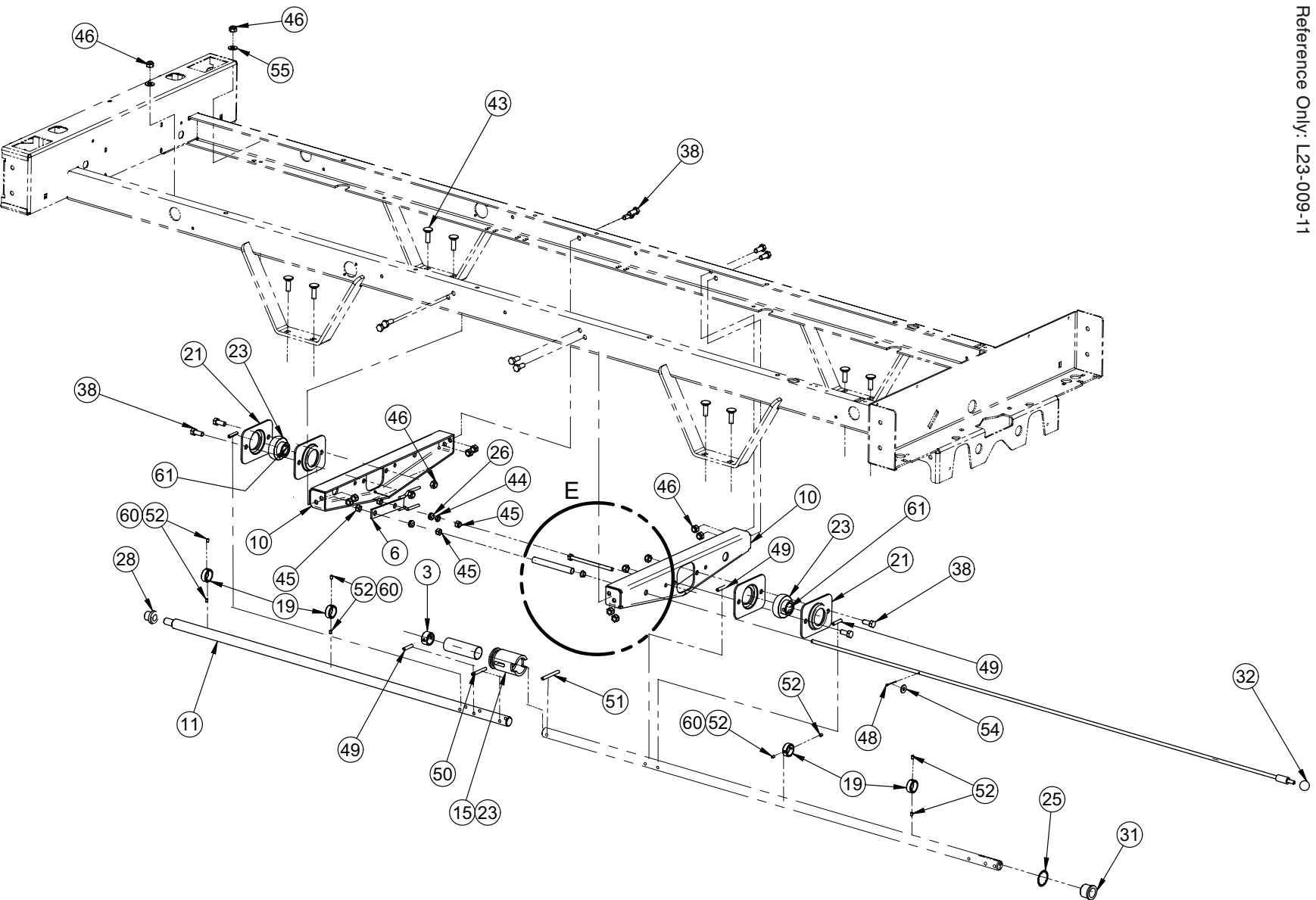
Base - L23-006

For Reference Only: L23-006G-02

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

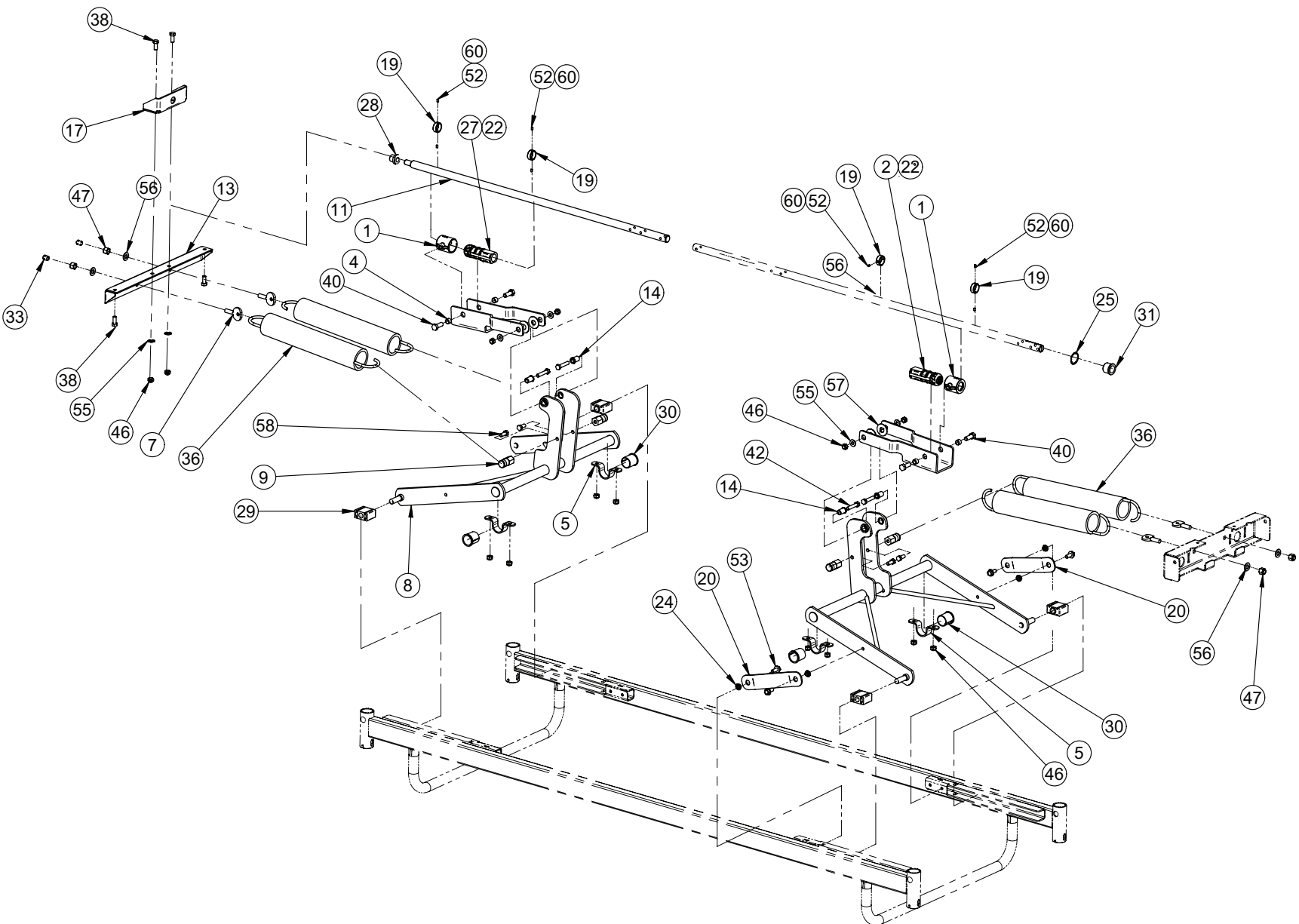
Hi-Lo Mechanism - L23-009

For Reference Only: L23-009-11

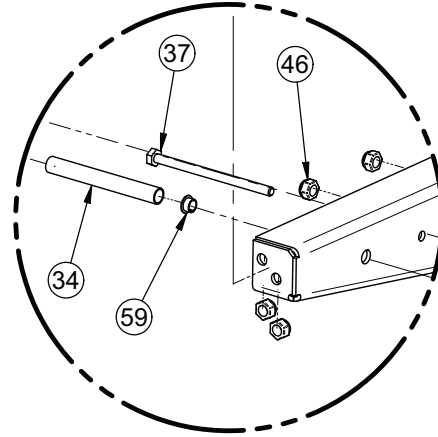


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Hi-Lo Mechanism - L23-009



Hi-Lo Mechanism - L23-009



DETAIL E

For Reference Only: L23-009-06

Item	Part No.	Part Name	Qty.
1	QPA13-0674	Nut Bracket	2
2	QP13-0675-11	Right Stub Acme Nut	1
3	1311P017Z	Screw Jammer Zinc	1
4	14403Z	Spacer	4
5	14662Z	Lever Clamp	4
6	18108G	Nut Fork	1
7	18144	Spring Adjustment Screw	4
8	23-0234G	S.A. Hi-Lo Lever	2
9	23-0353Z	Spring Bracket	4
10	23-0355G	Frame Crossmember	4
11	23-0375Z	Hi-Lo Mechanism Head Screw	1
12	23-0379G	Hi-Lo Screw Harness	2
13	23-0385G	Spring Retaining Bar	1
14	23-0456	Spacer	4
15	23-0538	Clutch Coupling	1
16	23-0539Z	S.A. Clutch Rod	1
17	23-0543G	Screw Support	1
19	23-0575Z	Screw Stop	4
20	25-0281G	Stabilizer	2
21	493G	Bearing Plate 3/4" Diameter	4
22	M0019	Petro Canada OG2 Grease	0.0300
23	QBAS204012	Bearing 3/4"	2
24	QDF17-0020	Shoulder Spacer Diameter 5/16 x 0.210"	4
25	QDF7852	Retainer Ring 1"	1
26	QDF9506	Insulating Washer 1/4"	2
27	QP13-0676-01	Left Stub Acme Nut	1
28	QPN-13-0159	Nylon Bushing 1/2" Interior Diameter	1
29	QPN-1310P009	Nylon Glide	4
30	QPN-18121	Molded Frame Bushing	4
31	QPN-18315	Nylon Bushing 3/4" Interior Diameter	1

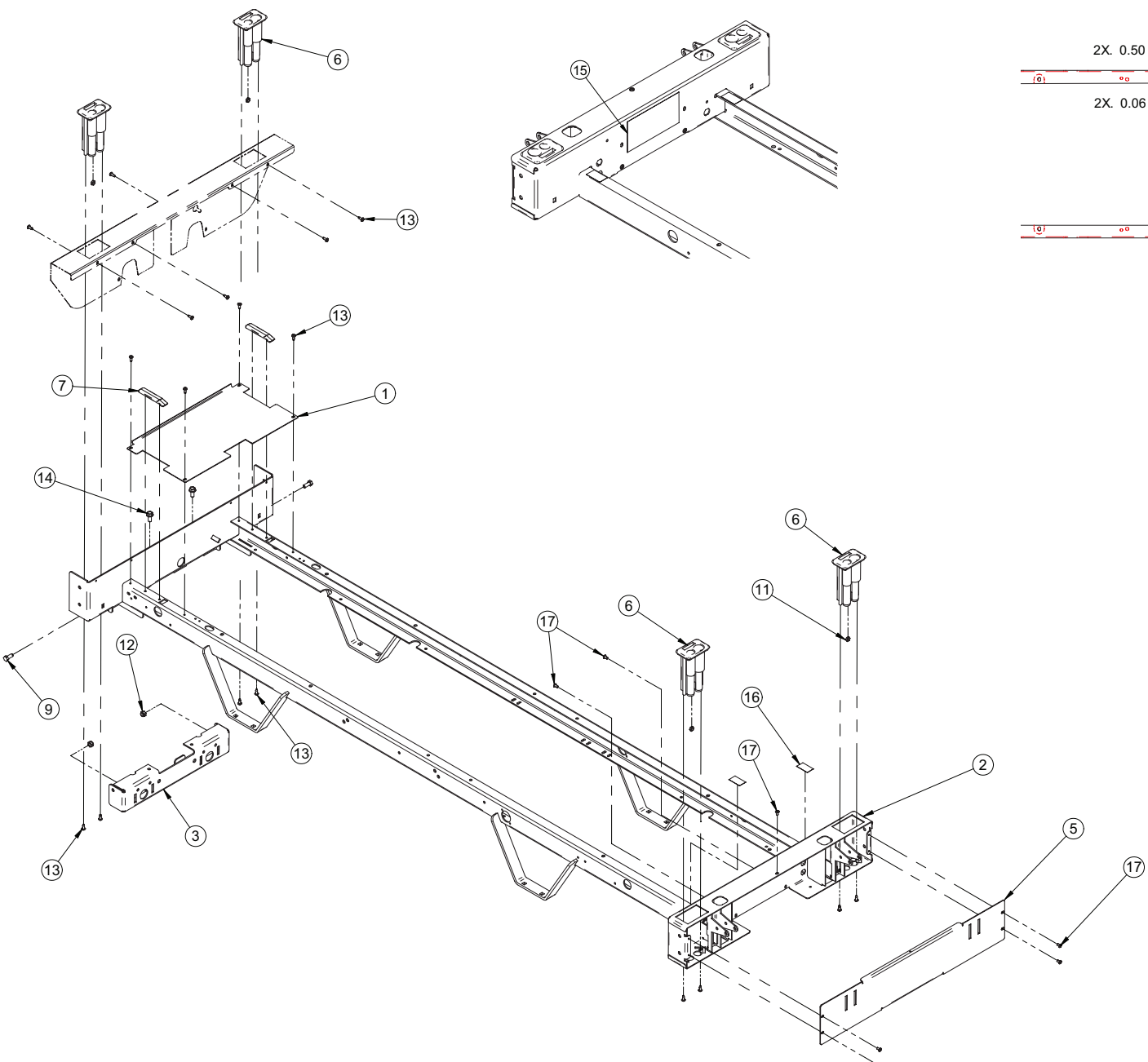
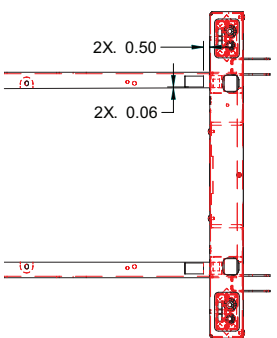
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Hi-Lo Mechanism - L23-009

Item	Part No.	Part Name	Qty.
32	QPPB0301	Ball Knob #222 1/4"-20 nc x 3/4"	1
33	QPVA0006	Vinyl Wire Tip 5/16" x 1/2" lg	2
34	QRC18135	Compression Spring 0.380" inside x 3 3/4" lg x 0.037"	1
35	QRCL498	Compression Spring 1" x 3" lg	1
36	QRE18130	Extension Spring 2.3" outside x 16" z.p.	4
37	VB15A1N64FT	Hexagon Bolt 1/4-20 x 4" Grade 5 z.p.	1
38	VB15A1O24	Hexagon Bolt 5/16-18 x 3/4" Grade 5 z.p.	16
40	VB15A1P32-S	Hexagon Bolt 3/8-16 x 1" Grade 5 z.p. Scotch Grip	4
42	VB15A1O40	Hexagon Bolt 5/16-18 x 1 1/2" Grade 5 z.p.	4
43	VB35A1O32	Carriage Bolt (Short Neck) 5/16-18-1 z.p. Grade 5	8
44	VE20A1N	Hexagone Locknut 1/4-20 z.p.	1
45	VE30A1N	Nylon Hexagone Locknut 1/4-20 z.p.	4
46	VE30A1O	Nylon Hexagone Locknut 5/16-18 z.p.	28
47	VE30A1P	Nylon Hexagone Locknut 3/18-16 z.p.	4
48	VG40B0332	Cotter Pin 3/32" x 1"	1
49	VG10B0732	Spring Pin 7/32" Diameter x 1" lg	4
50	VG10B0742	Spring Pin 7/32" Diameter x 1 5/8" lg	1
51	VG10B0748	Spring Pin 7/32" x 2"	1
52	VV60B1E08	Set Screw Hexagone Socket Head # 8-32 x 1/4"	8
53	VVB4A1O24	Bolt 5/16"-18 x 3/4" Thread Rolling	4
54	VW10A08	Flat Washer 1/4" SAE z.p.	1
55	VW10A10	Flat Washer 5/16" SAE z.p.	8
56	VW10A12	Flat Washer 3/8" SAE z.p.	4
57	VW10C173602	Nylon Washer 1/2" Inside Diameter x 1 1/4" Diameter	4
58	VB15A1O24-S	Hexagone Bolt 5/16-18 x 3/4" Grade 5 z.p.	4
59	QPNI2402	Nylon Bushing 5/16"	1
60	M0008	Threadlocker - Medium Strength (Blue)	0.0003
61	M0015	Threadlocker - Medium Strength (Green)	0.0500

Frame - L23-010

For Reference Only: L23-010-08



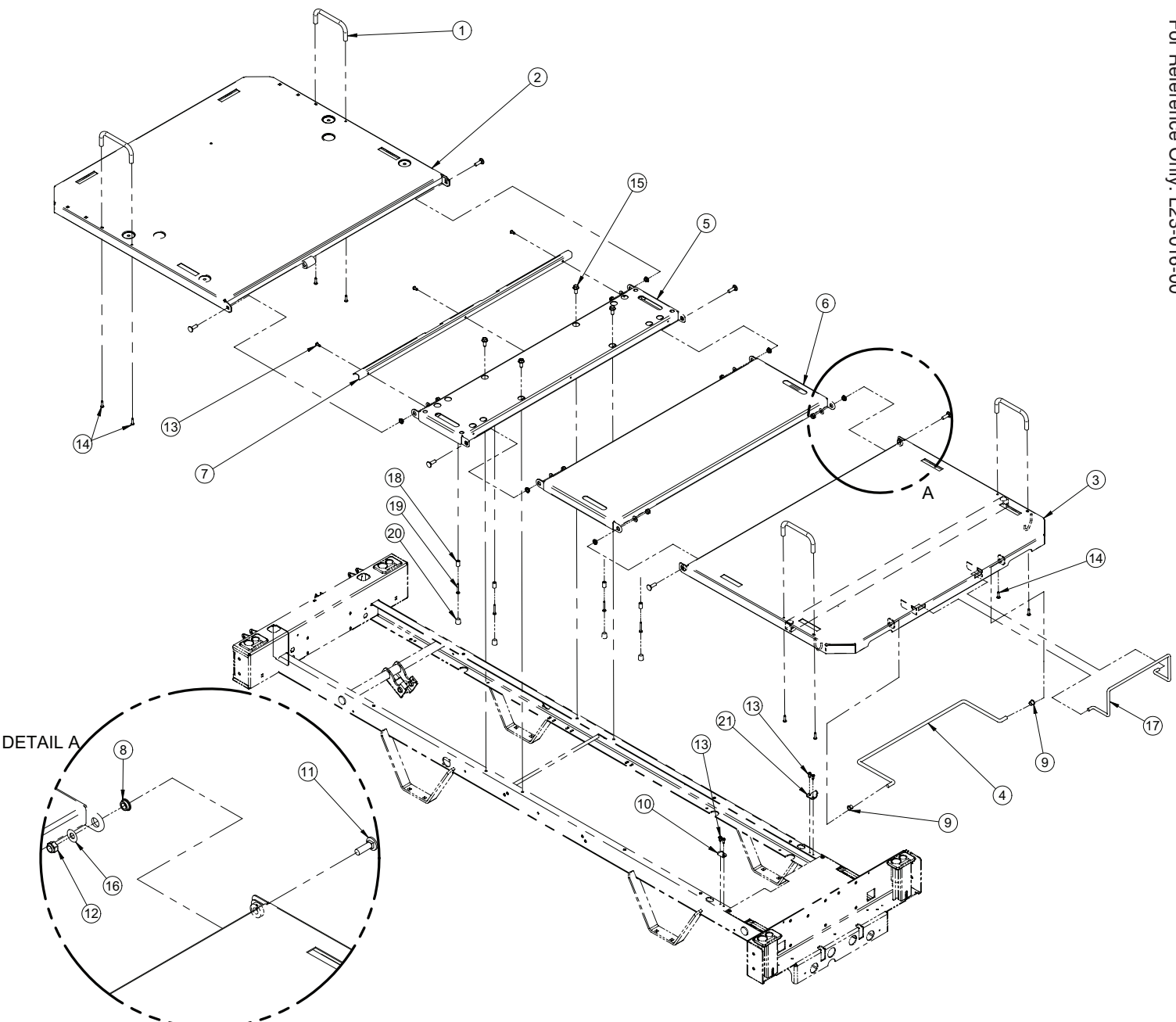
Frame - L23-010

For Reference Only: L23-010G-04

Item	Part No.	Part Name	Qty.
1	23-0167G	Foot Cover Plate	1
2	23-0351G	S.A. Frame	1
3	23-0352G	Foot End Crossmember	1
5	23-0362G	Head End Casing Cover	1
6	QP17-0121-07	IV Pole Holder	4
7	QP23-0257	Mattress Support Glide	2
9	VB15A1O24	Hexagone Bolt 5/16-18 x 3/4" Grade 5 z.p.	2
11	VE20A1N	Hexagone Locknut 1/4-20 z.p.	4
12	VE30A1O	Nylon Hexagone Locknut 5/16-18 UNC z.p.	2
13	VV83A9G16	Tapping Screw Pan Head Phillips Type B #10 x 1/2" z.p.	25
14	VVB4A1O24	Bolt 5/16"-18 x 3/4" Thread Rolling	2
15	QE71-0861-F	Sticker Manufacturer	1
16	QE71-1069	Frame Protector Sticker	2

Mattress Support - L23-016

For Reference Only: L23-016-00



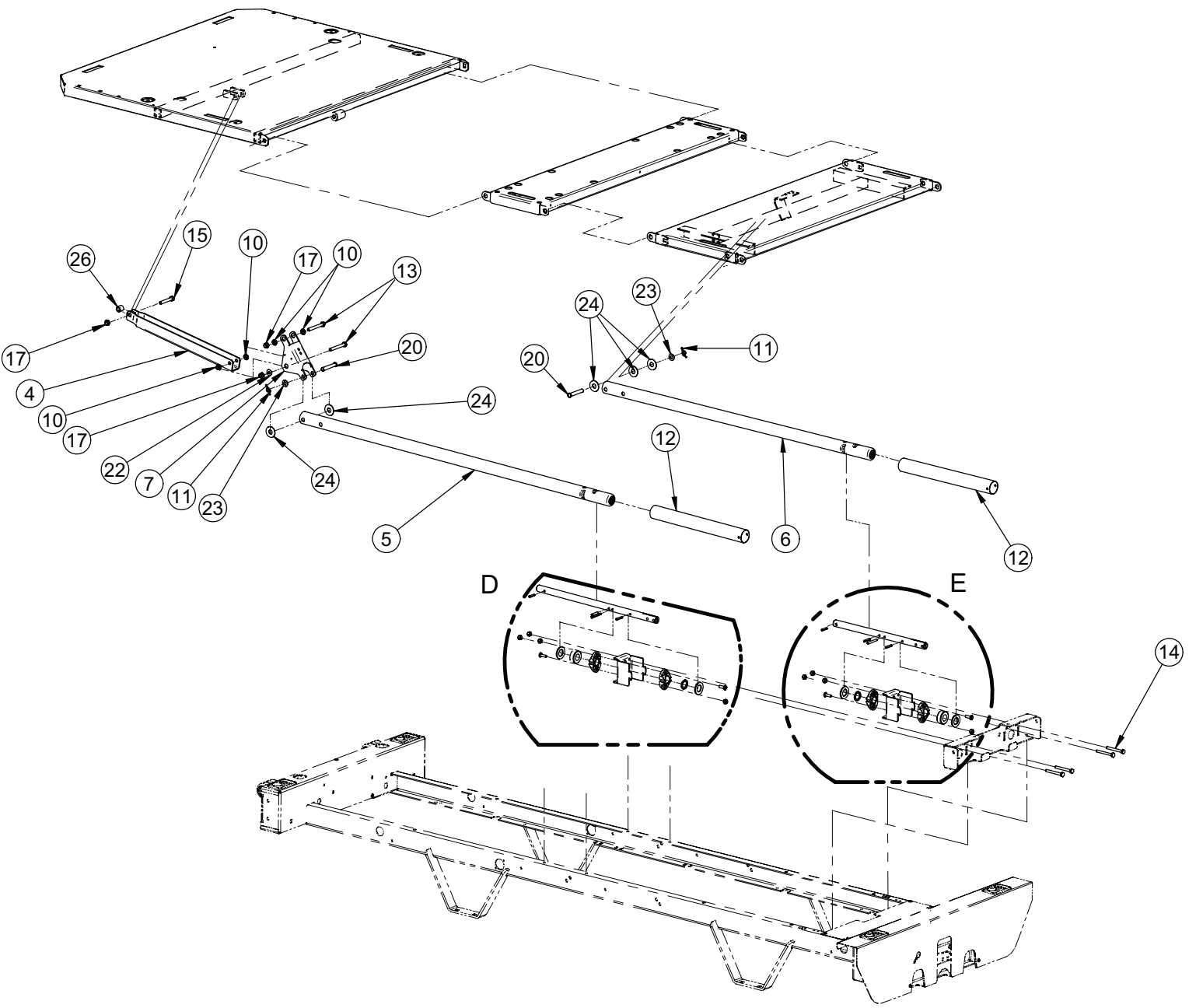
Mattress Support - L23-016

For Reference Only: L23-016G-01

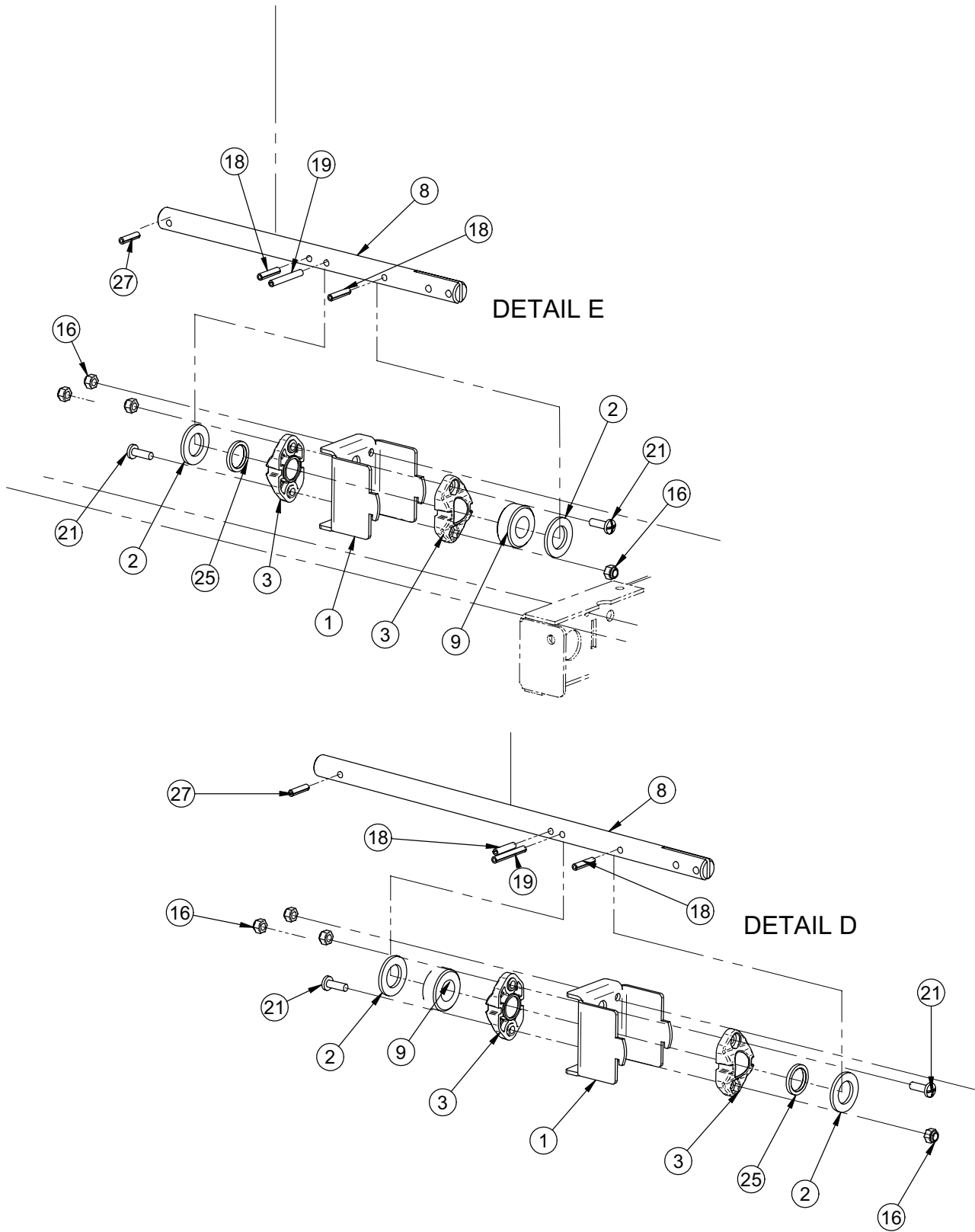
Item	Part No.	Part Name	Qty.
1	QP14034-07	Mattress Retainer	4
2	23-0091G	S.A. Head Section	1
3	23-0705G	Foot Section	1
4	23-0704G	Foot Prop Rod	1
5	23-0640G	S.A. Seat Section	1
6	25-0634G	Thigh Section	1
7	25-0274G	Protective Bracket	1
8	QDF17-0020	Shoulder Spacer Diameter 5/16 x 0.210"	6
9	QPNI2404	Nylon Shoulder Bushing 3/8" Inside Diameter	2
10	28-0461Z	Right Hook	1
11	VB35A1O32	Carriage Bolt (Short Neck) 5/16-18-1 z.p. Grade 5	6
12	VE20A1O	Nylon Hexagone Locknut 5/16-18 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 #10 x 1-1/4" Screw	4
20	QPCF1002	Rubber Cap	4
21	28-0468Z	Left Hook	1

Head and Foot Elevation - L23-017

For Reference Only: L23-017-01



Head and Foot Elevation - L23-017



Head and Foot Elevation - L23-017

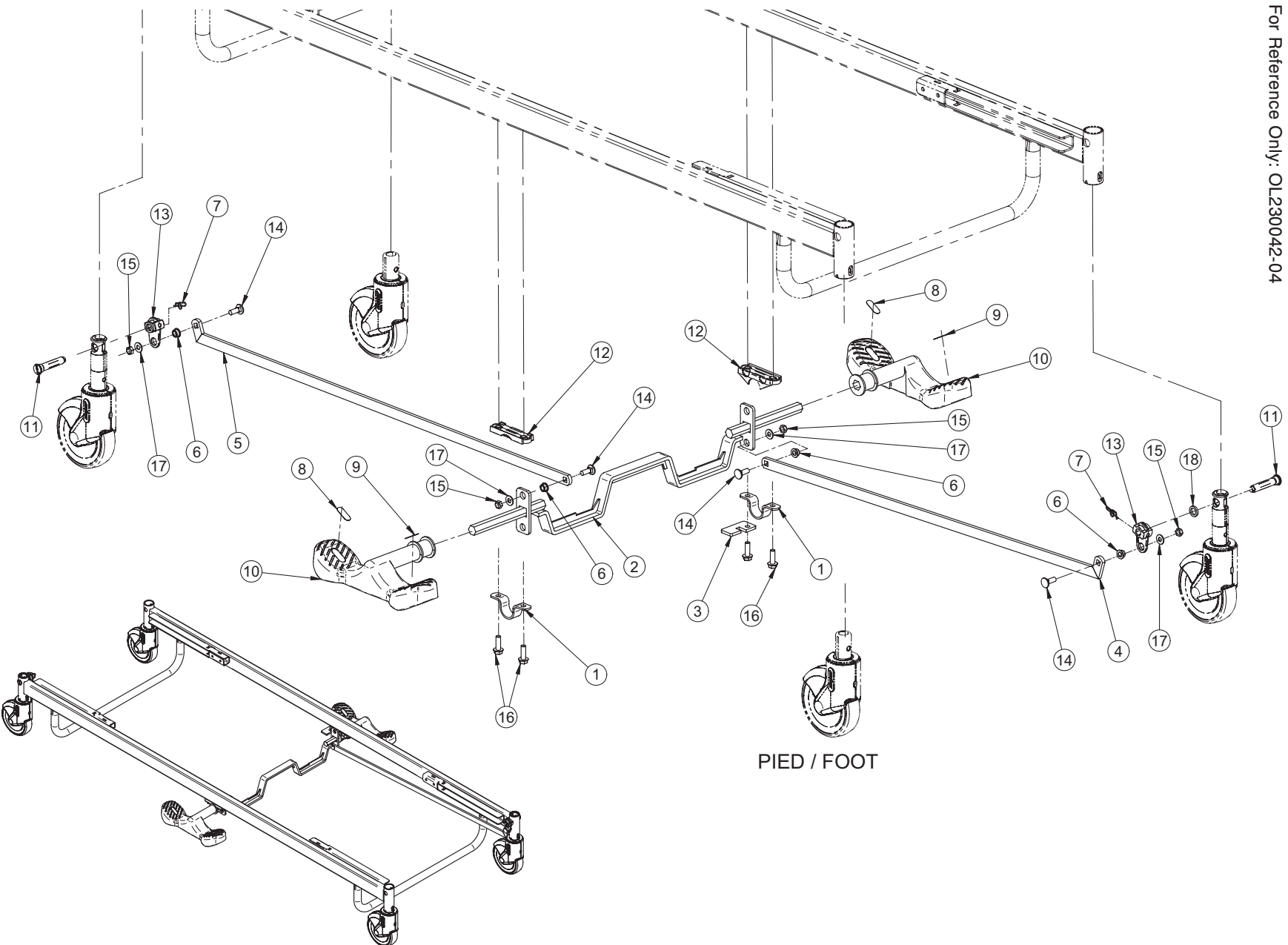
For Reference Only: L23-017G-02

Item	Part No.	Part Name	Qty.
1	13-0853G	Screw Support	2
2	13-0956Z	Steel Washer for 3/4" Bolt	4
3	QP18-0248-01	Crank Screw Pivot	4
4	20-0223G	Head Section Arm Lever	1
5	23-0356	S.A. Head Actuator Tube - FL23M	1
6	23-0357	S.A. Thigh Actuator Tube - FL23M	1
7	25-0362Z	Mattress Support Lever	1
8	M0019	Petro Canada OG2 Grease	0.0300
9	QB4459-00	3/4" Thrust Bearing	2
10	QDF17-0020	Shoulder Spacer Diameter 5/16 x 0.201"	4
11	QDF7878	Rue Ring Cotter Diameter Diameter 3/8" z.p.	2
12	QDFT18-0254	Screw Dust Cover	2
13	VB15A1O52	Hexagone Bolt 5/16-18 x 2 1/2" Grade 5 z.p.	2
14	VB15A1O50	Hexagone Bolt 1/4-20 x 2 1/4" Grade 5 z.p.	4
15	VB15A1O48	Hexagone Bolt 5/16"-18 x 2" Grade 5 z.p.	1
16	VE30A1N	Nylon Hexagone Locknut 1/4-20 z.p.	8
17	VE30A1O	Nylon Hexagone Locknut 5/16-18 UNC z.p.	3
18	VG10B0732	Spring Pin 7/32" Diameter x 1" lg	4
19	VG10B0742	Spring Pin 7/32" Diameter x 1 5/8" lg	2
20	VG50B1250	Clevis Pin Diameter 3/8" x 2 1/4" z.p.	2
21	VV33A1N24	Machine Screw Pan Phillips 1/4-20 x 3/4" z.p.	4
22	VW10A10	Flat Washer 5/16" SAE z.p.	1
23	VW10C122402	Nylon Washer 3/8" ID x 1/16"	2
24	VW10C173602	Nylon Washer 1/2" ID x 1 1/4" OD	5
25	VW10C263304	Nylon Washer 13/16" int. x 1-1/16" ext. x 1/8"	2
26	VW60C201320	Nylon Spacer 5/8" x 0.386" x 39/64"	1
27	VG10B0728	Spring Pin 7/32" x 7/8" lg	2

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Brake Mechanism without 5th Wheel - OL230042

For Reference Only: OL230042-04



Brake Mechanism without 5th Wheel - OL230042

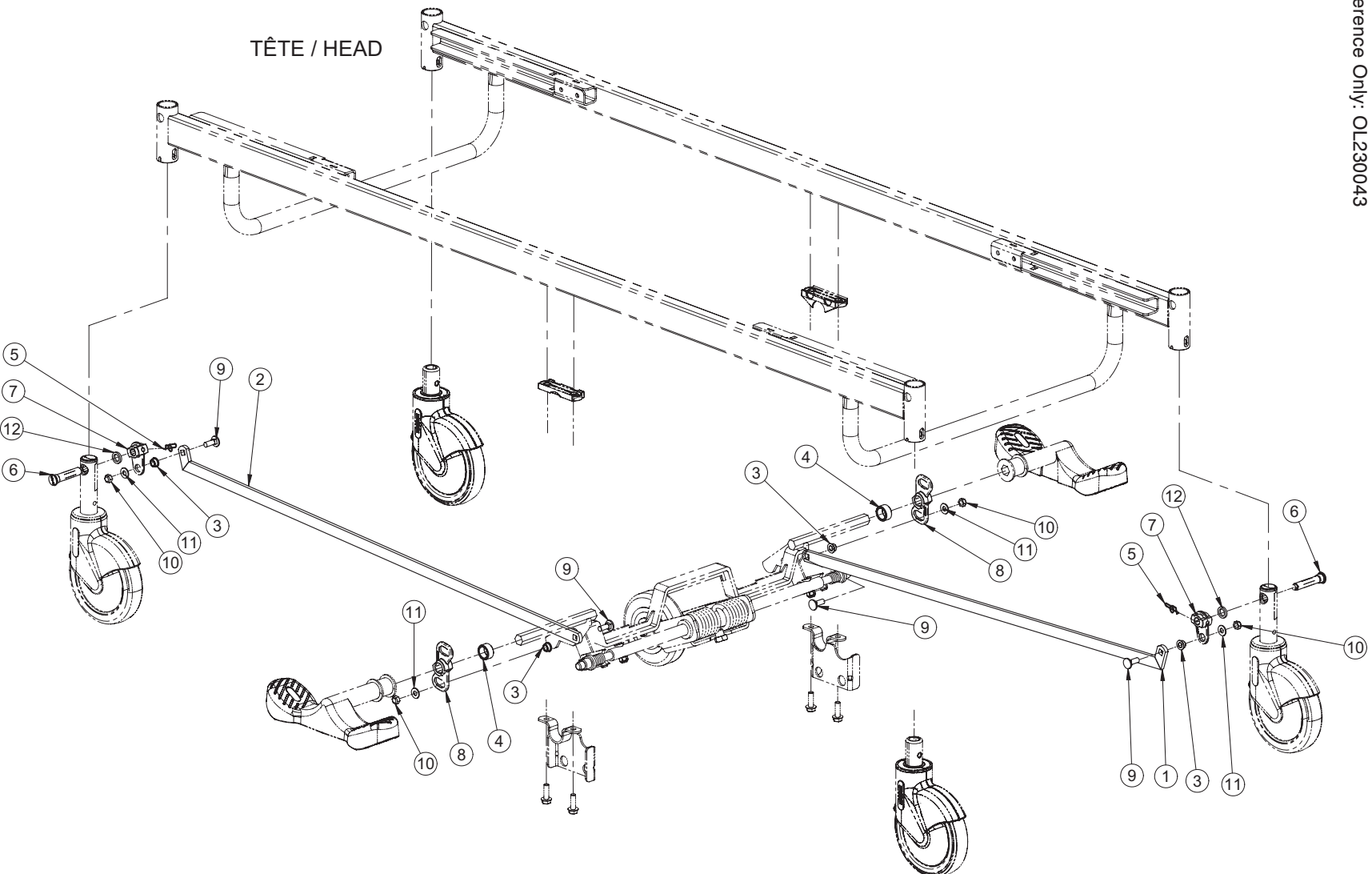
For Reference Only: OL230042G-03

Item	Part No.	Part Name	Qty.
1	14662Z	Lever Clamp	2
2	23-0327G	S.A. Brake Lever	1
3	23-0333Z	Steer Stop	1
4	25-0291G	S.A. Connecting Rod - Foot	1
5	25-0292G	S.A. Connecting Rod - Head	1
6	25-0340	Spacer 5/16 x 3/16	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	VB35A1O28FT	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"	2

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Brake Mechanism with 5th Wheel - OL230043

For Reference Only: OL230043



Brake Mechanism with 5th Wheel - OL230043

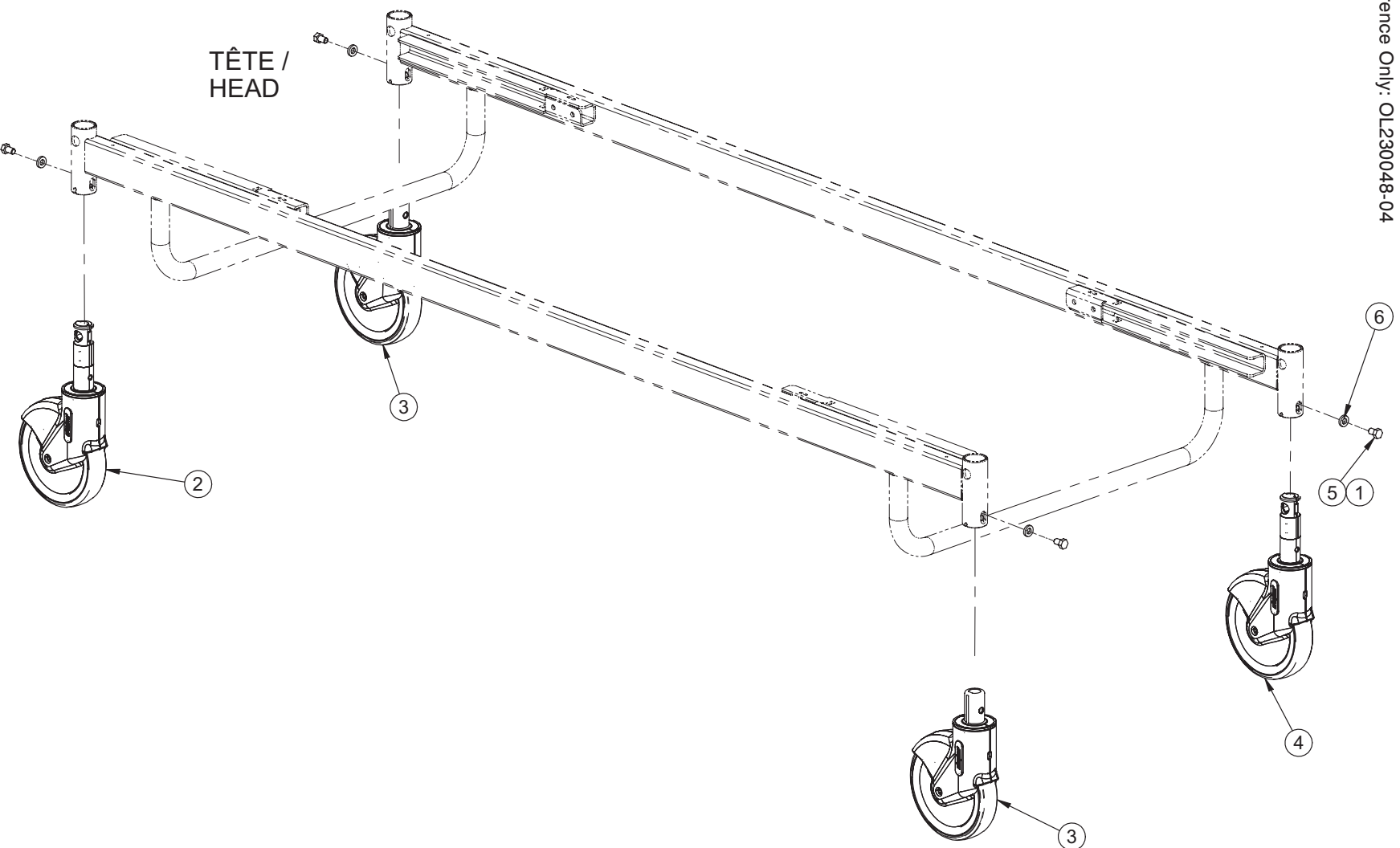
For Reference Only: OL230043G-02

Item	Part No.	Part Name	Qty.
1	25-0291G	S.A. Connecting Rod - Foot	1
2	25-0292G	S.A. Connecting Rod - Head	1
3	25-0340	Spacer 5/16 x 3/16	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"	2

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6" Casters without 5th Wheel - OL230048

For Reference Only: OL230048-04



6" Casters without 5th Wheel - OL230048

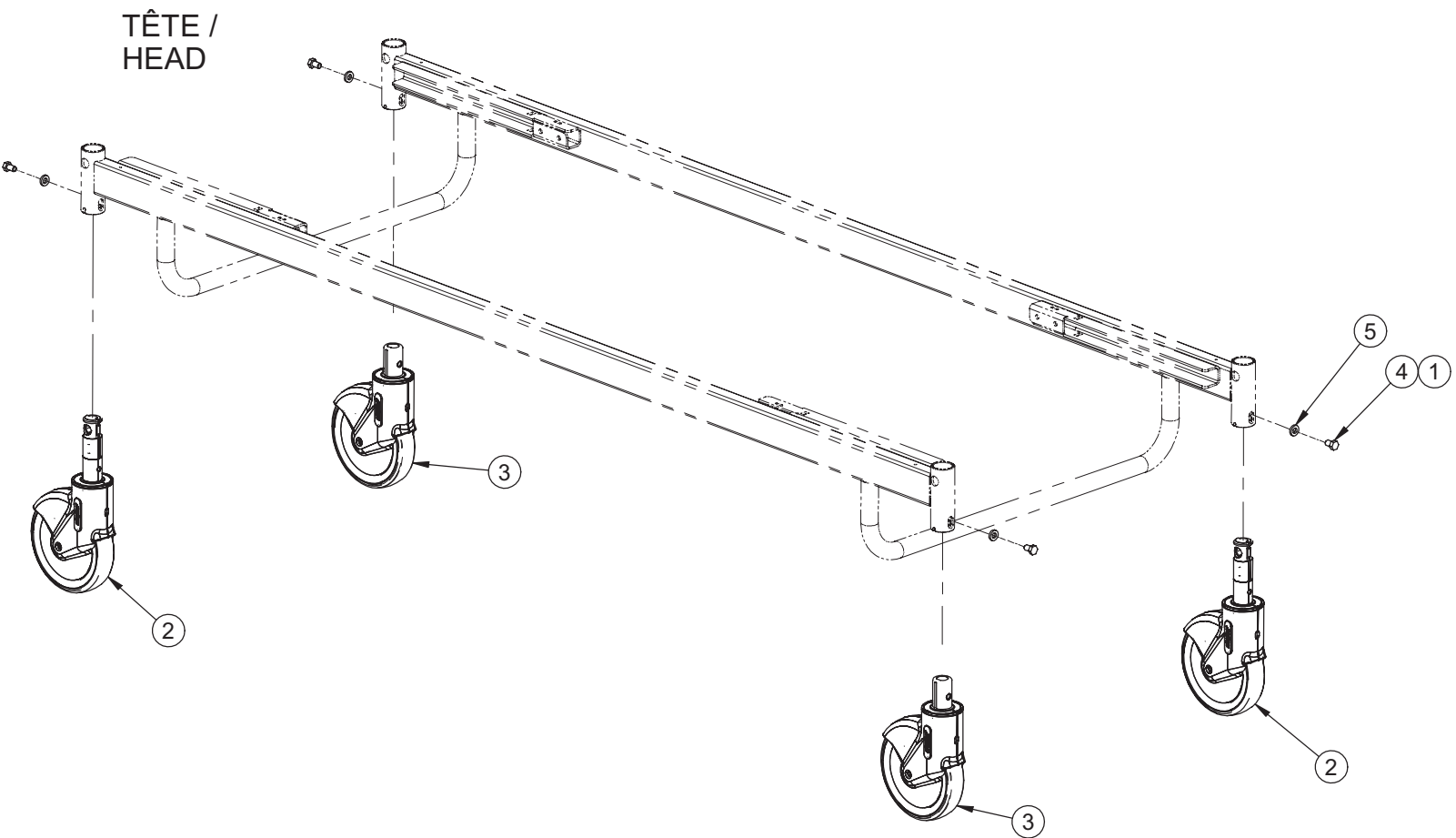
For Reference Only: OL230048-04

Item	Part No.	Part Name	Qty.
1	M0008	Threadlocker - Medium Strength (Blue)	0.0500
2	RD25038807	6" Locking Caster	1
3	RD25049307	6" Swivel Caster	2
4	RD25049607	6" Steer Caster	1
5	VB15A1O16	Hexagone Bolt 5/16-18 x 1/2" Grade 5 z.p.	4
6	VW10A1120	Flat Washer 5/16" Diameter	4

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6" Casters with 5th Wheel - OL230050

For Reference Only: OL230050-03



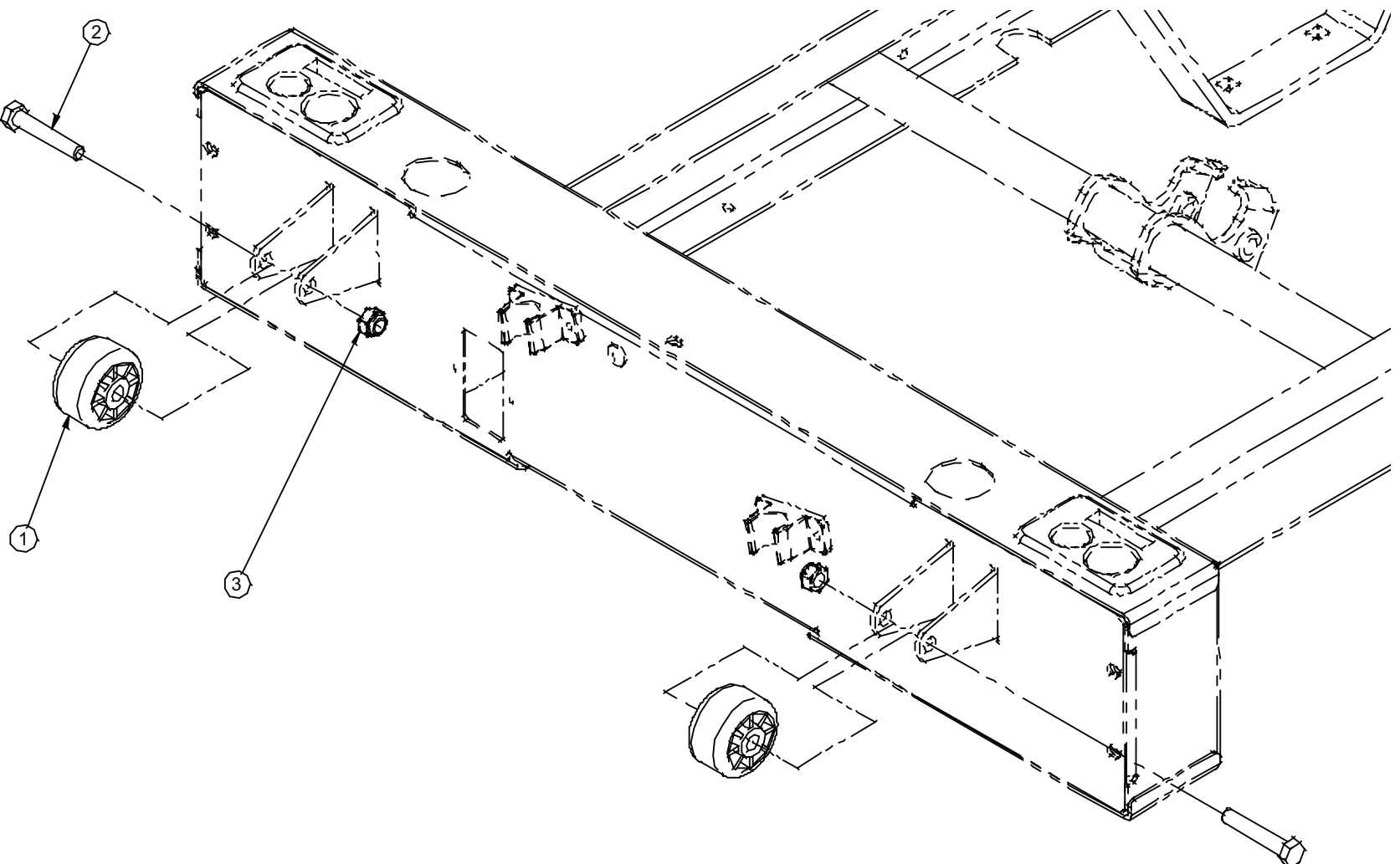
6" Casters with 5th Wheel - OL230050

For Reference Only: OL230050-05

Item	Part No.	Part Name	Qty.
1	M0008	Threadlocker - Medium Strength (Blue)	0.0500
2	RD25038807	6" Locking Caster	2
3	RD25049307	6" Swivel Caster	2
4	VB15A1O16	Hexagone Bolt 5/16-18 x 1/2" Grade 5 z.p.	4
5	VW10A1120	Flat Washer 5/16" Diameter	4

Bumpers - One Rigid Roller - OL230052

For Reference Only: OL230052-01



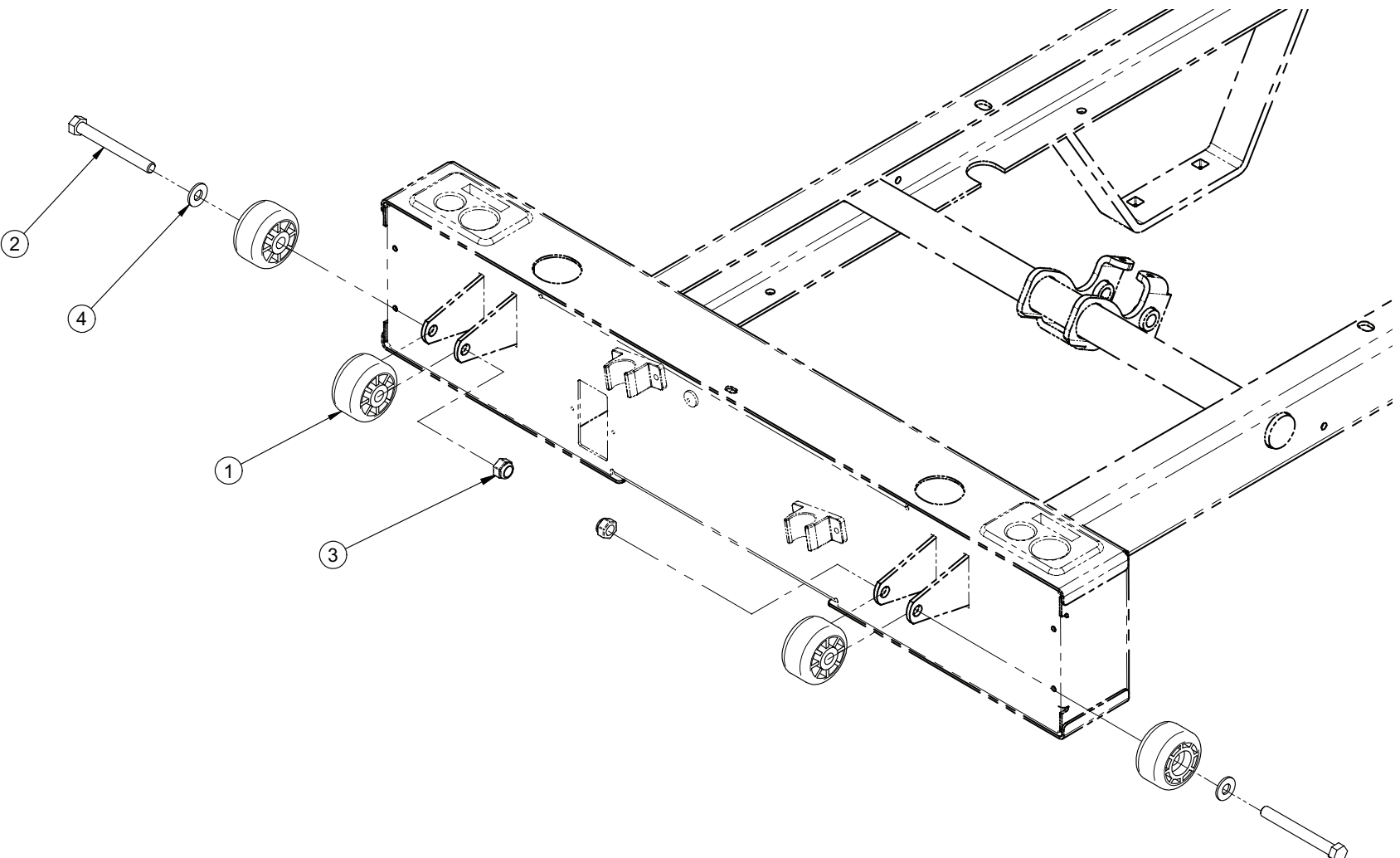
Bumpers - One Rigid Roller - OL230052

For Reference Only: OL230052G-03

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

Bumpers - Two Soft Rollers - OL230053

For Reference Only: OL230053-00



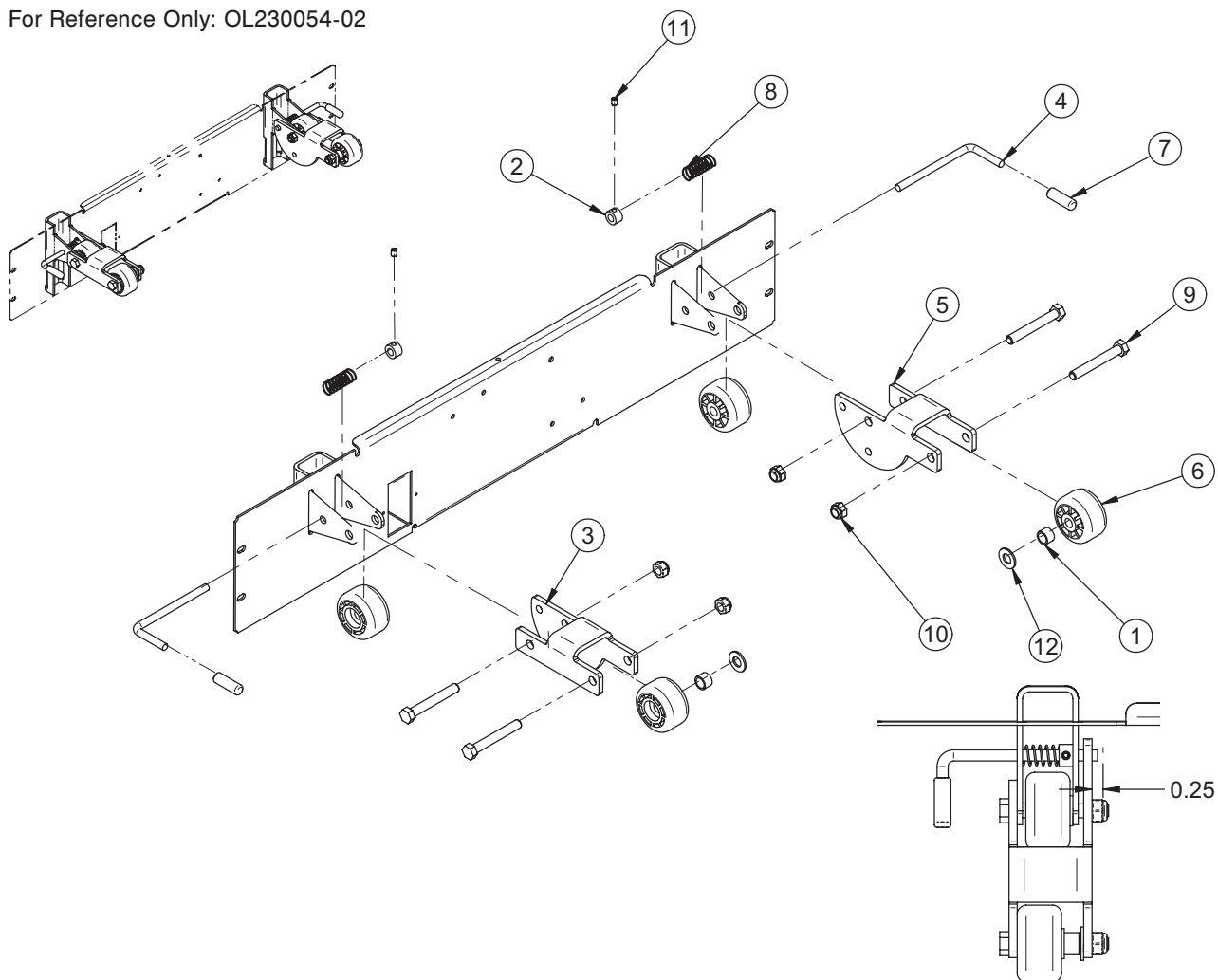
Bumpers - Two Soft Rollers - OL230053

For Reference Only: OL230053G-02

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

Adjustable Bumpers - OL230054

For Reference Only: OL230054-02

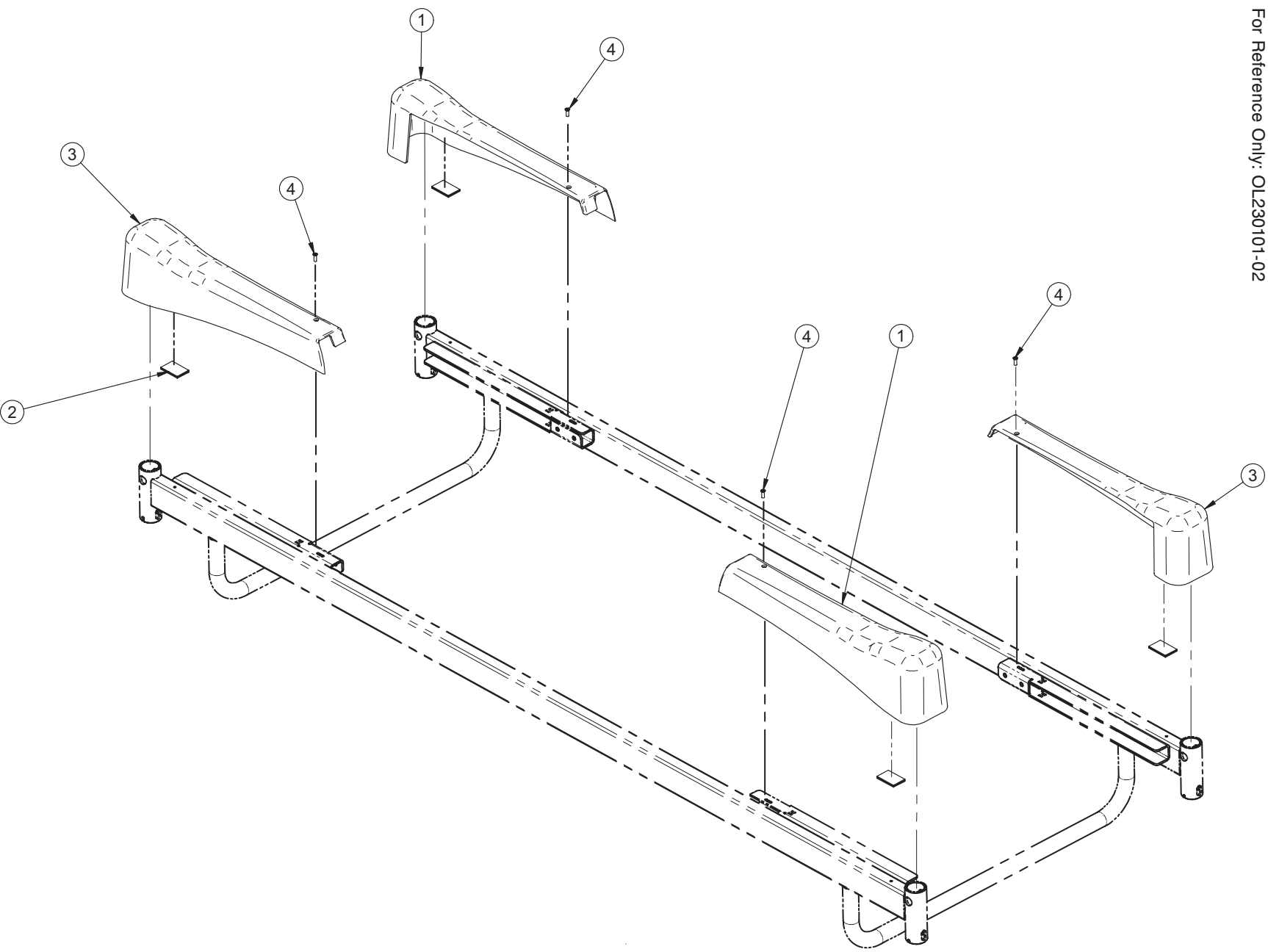


For Reference Only: OL230054G-03

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	Hexagone Bolt 5/16-18 x 2 1/4" Grade 5 z.p.	4
10	VE30A1O	Nylon Hexagone Locknut 5/16-18 UNC z.p.	4
11	VV60A0G08-S	Hexagone Socket Set Screw 10-32 x 1/4" Scotch Grip	2
12	VW10C122402	Nylon Washer 3/8" ins. dia. x 1/16"	2

Caster Covers - OL230101

For Reference Only: OL230101-02



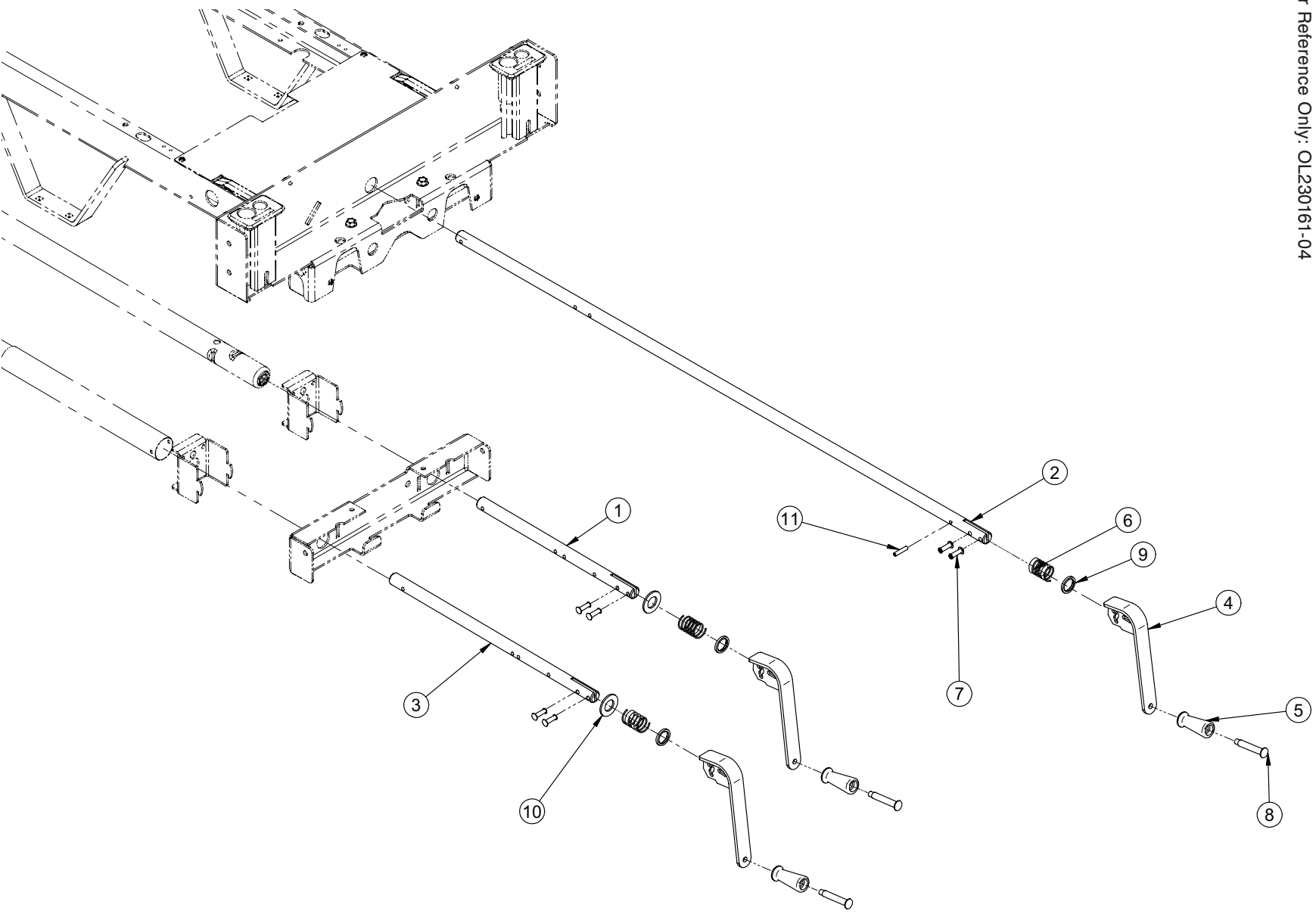
Caster Covers - OL230101

For Reference Only: OL230101-03

Item	Part No.	Part Name	Qty.
1	QP28-0299-07	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 Phillips Flat Head #8 x 1/2" z.p.	4

Fixed Cranks - OL230161

For Reference Only: OL230161-04



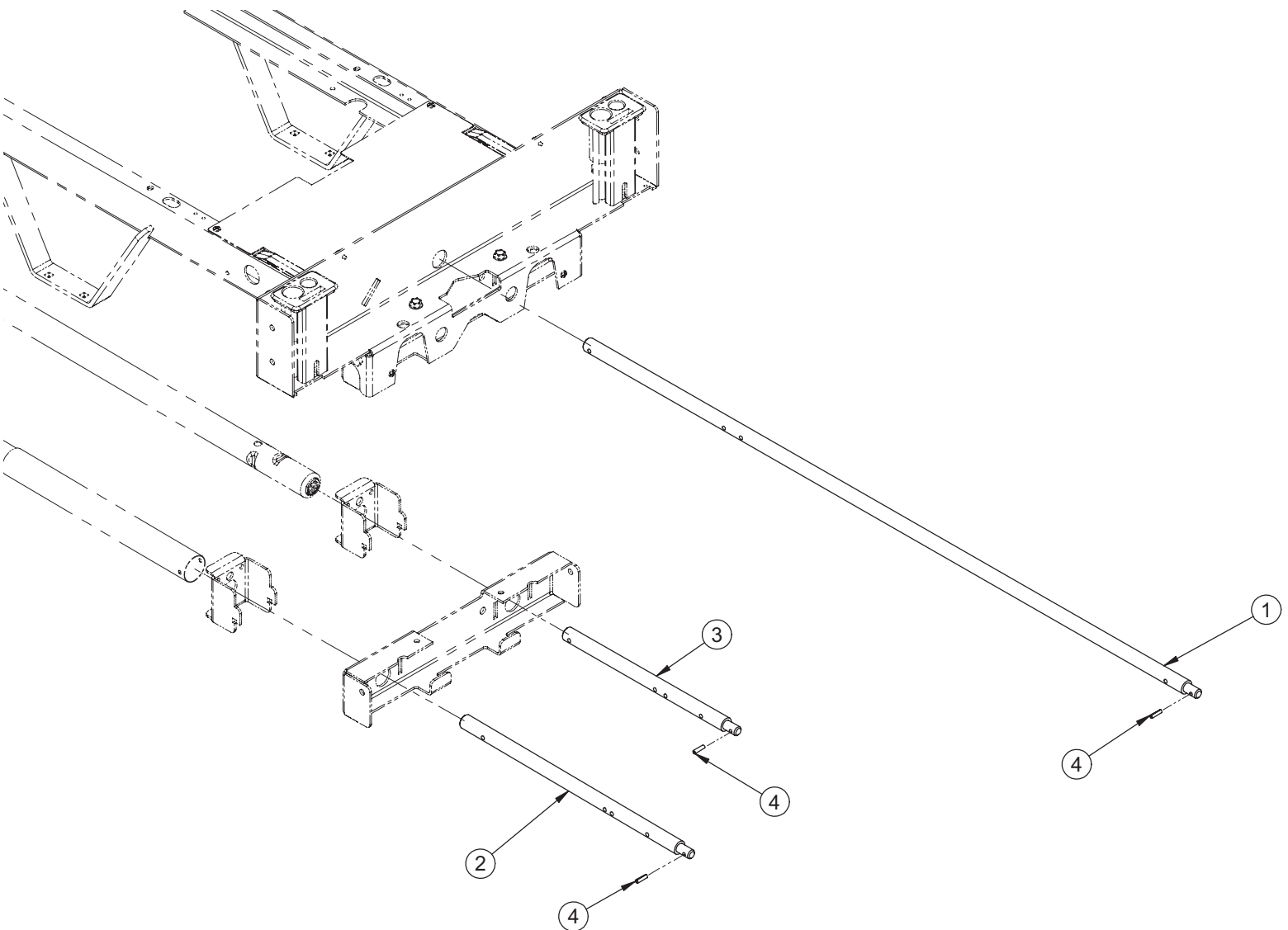
Fixed Cranks - OL230161

For Reference Only: OL230161-03

Item	Part No.	Part Name	Qty.
1	23-0694Z	Foot Screw Fixed Crank	1
2	23-0373Z	Hi-Lo Mechanism Foot Screw	1
3	23-0455Z	Head Section Screw	1
4	40060C	S.A. Chromed Crank	3
5	QPN-9438	Black Nylon Handle	3
6	QRC18134	Compression Spring 13/16" x 1-7/16" lg x 0.065"	3
7	VR23A0828	Tubular Rivet 1/4" x 7/8" z.p.	6
8	VR43A9439	Shoulder Rivet	3
9	VW10C263304	Nylon Washer 13/16" int. x 1 1/16" ext. x 1/8"	3
10	VW10C392403	Nylon Washer 0.760" x 1.420" x 0.100"	2
11	VG10B0732	Spring Pin 7/32" Diameter x 1" lg	1

Removable Crank - OL230162

For Reference Only: OL230162-03



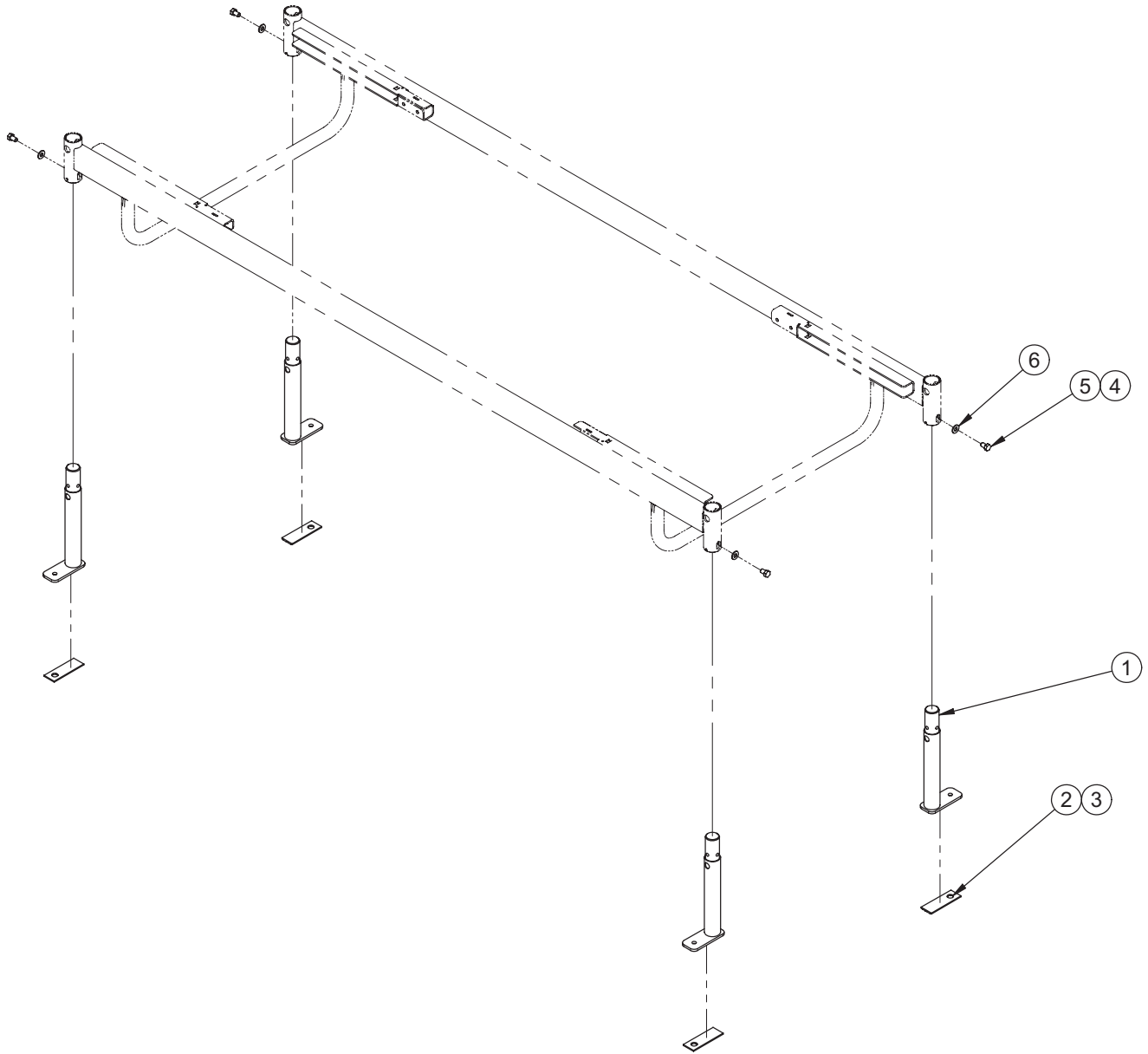
Removable Crank - OL230162

For Reference Only: OL230162-02

Item	Part No.	Part Name	Qty.
1	23-0457Z	Hi-Lo Mechanism Foot Screw - Removable Crank	1
2	23-0458Z	Head Section Screw - Removable Crank	1
3	23-0459Z	Thigh Section Screw - Removable Crank	1
4	VG10B0622	Spring Pin 3/16" dia. x 11/16" lg	3

Bed on 6" Legs - OL230163

For Reference Only: OL230163-02



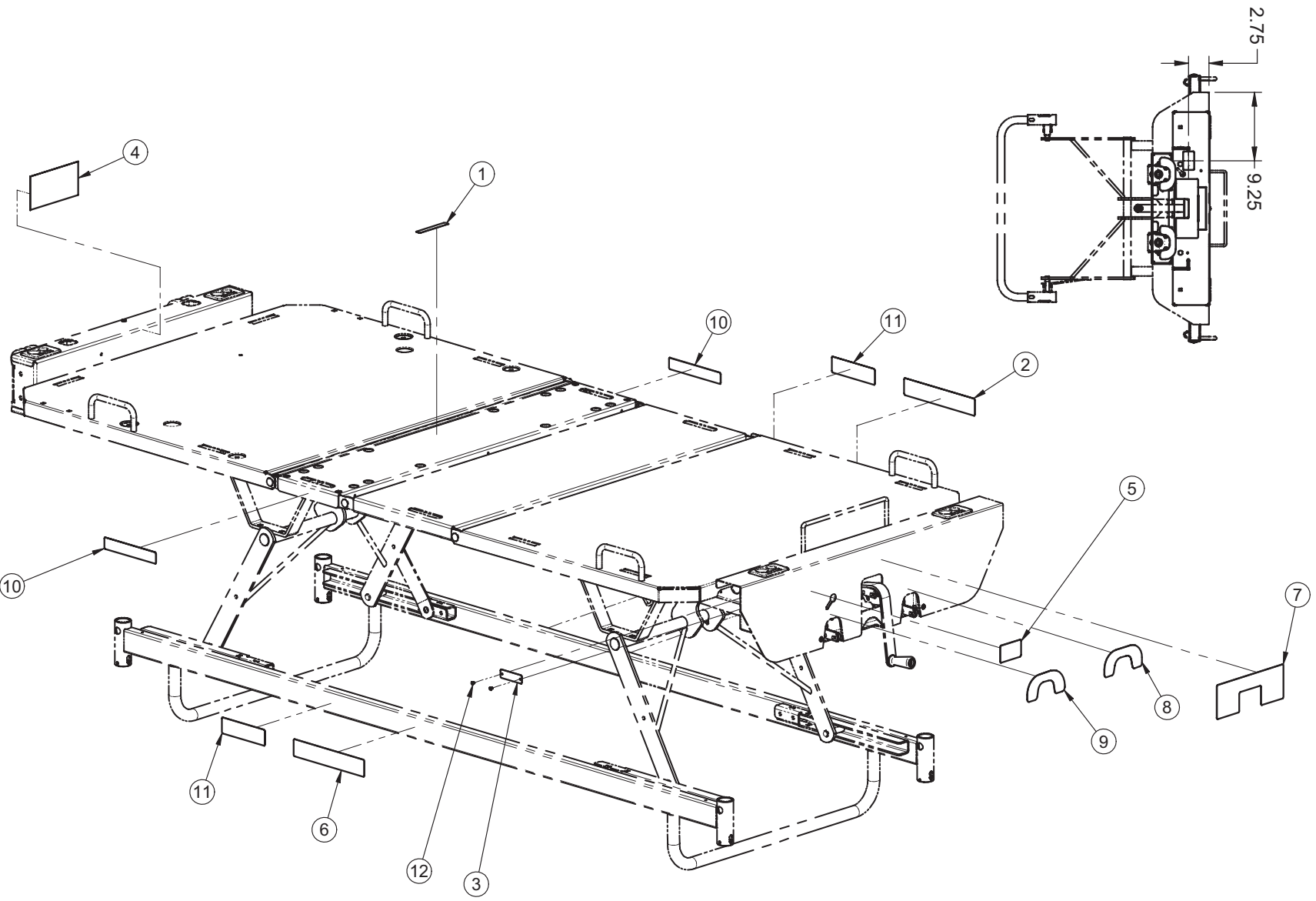
For Reference Only: OL230163G-02

Item	Part No.	Part Name	Qty.
1	23-0748G	S.A. Fixation Leg	4
2	23-0462	Retaining Plate	4
3	M0005	Cyanoacrylate Glue #TB1743-1	0.0150
4	M0008	Threadlocker - Medium Strength (Blue)	0.1500
5	VB15A1O16	Hexagone Bolt 5/16-18 x 1/2" Grade 5 z.p.	4
6	VW10A10	Flat Washer 5/16" SAE z.p.	4

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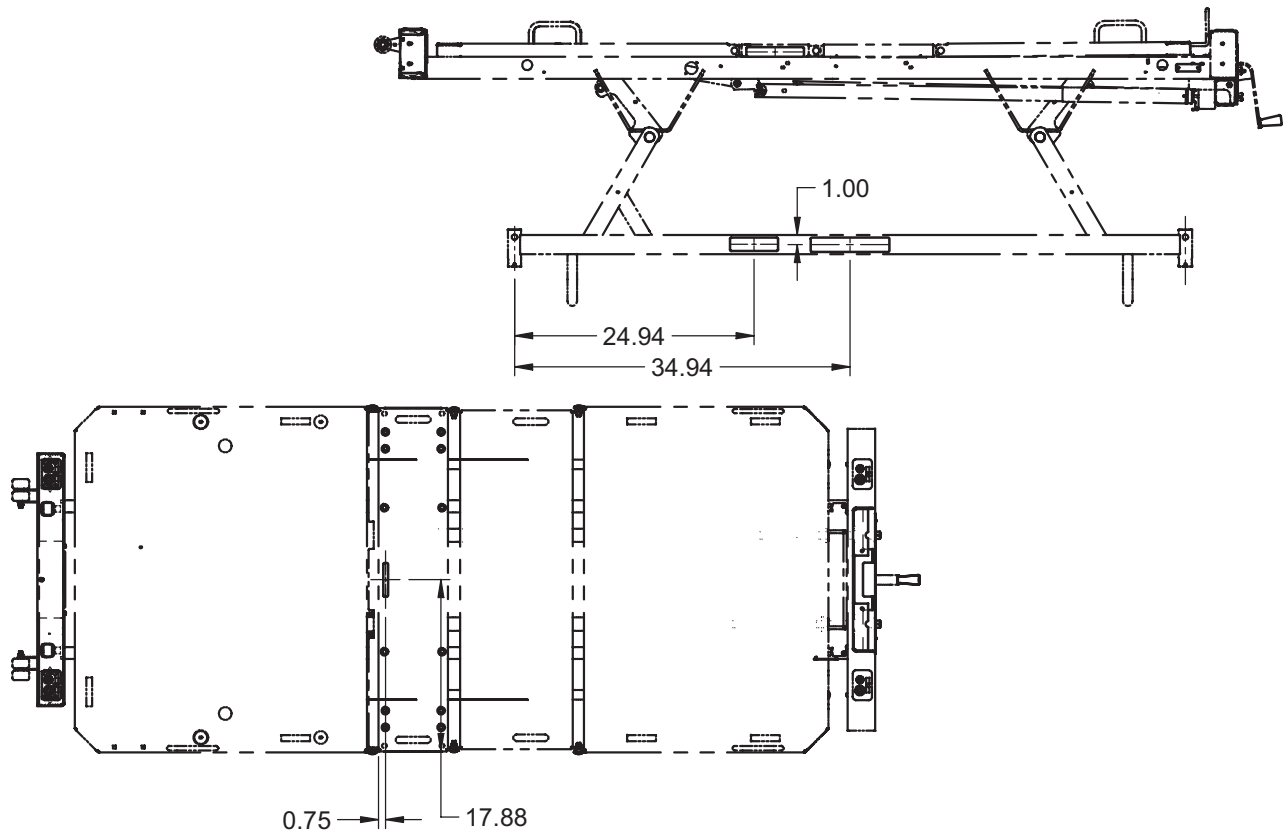
FL23M Stickers - English Only - OL230164

For Reference Only: OL230164-00



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FL23M Stickers - English Only - OL230164



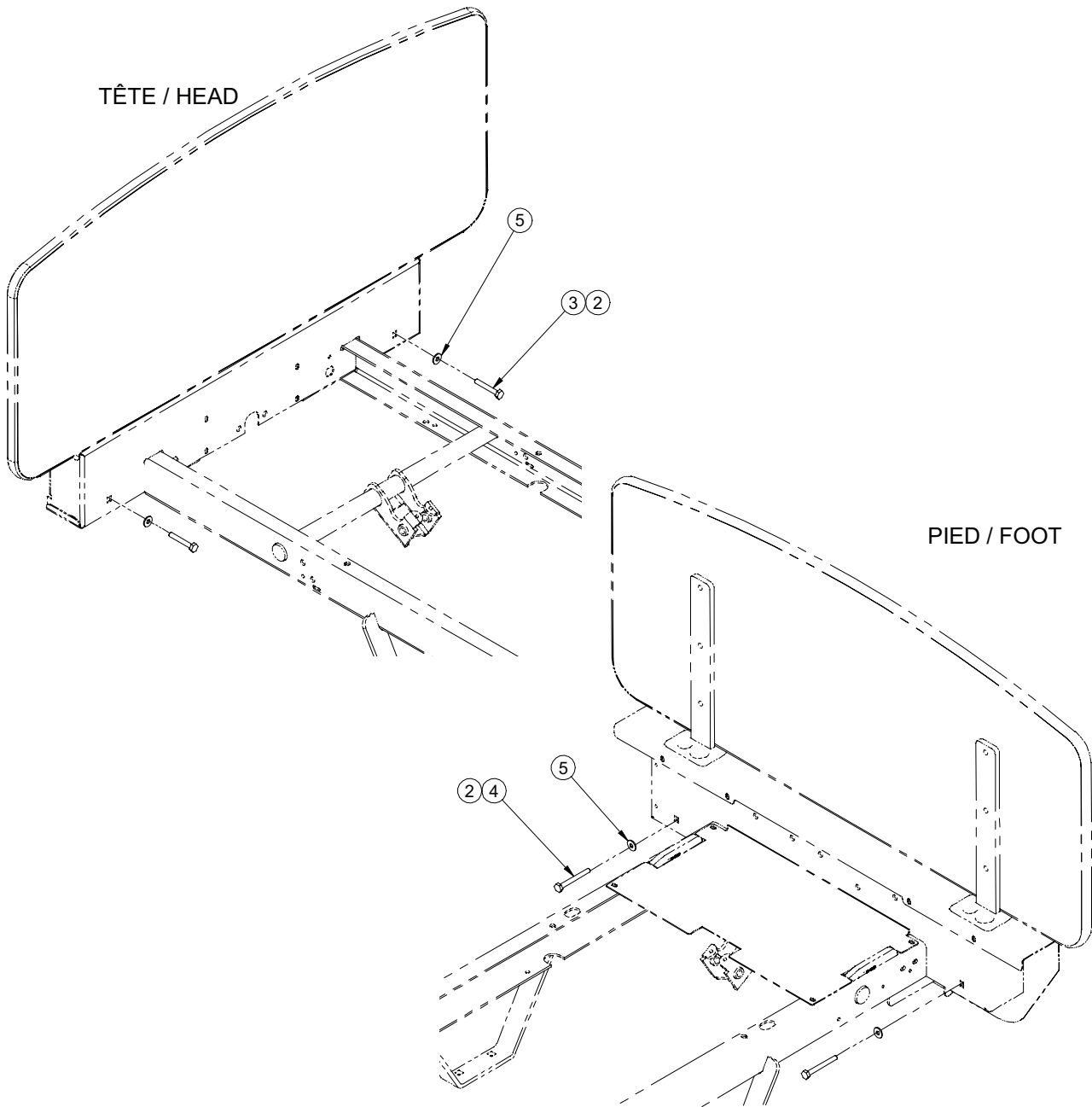
For Reference Only: OL230164-01

Item	Part No.	Part Name	Qty.
1	QE71-0709-E	Sticker - Mattress Maximum Width	1
2	QE71-0722-E	Sticker - Left Pedal Positions	1
3	QE71-0821-T	Serial Number Plate	1
4	QE71-0861-F	Sticker Manufacturer	1
5	QE71-0856-F	Sticker - Crank Use	1
6	QE71-0721-E	Sticker - Right Pedal Positions	1
7	QE71-0843	Sticker - Trend Use	1
8	QE71-0840	Sticker - Thigh Section Movement	1
9	QE71-0839	Sticker - Head Section Movement	1
10	QE71-0547	Sticker - Maximum Load	2
11	QE71-0346	Sticker - STRYKER	2
12	VR11H43	"POP" Rivet #43 Dome Head	2

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Board Locking Screw - OL230165

For Reference Only: OL230165-02

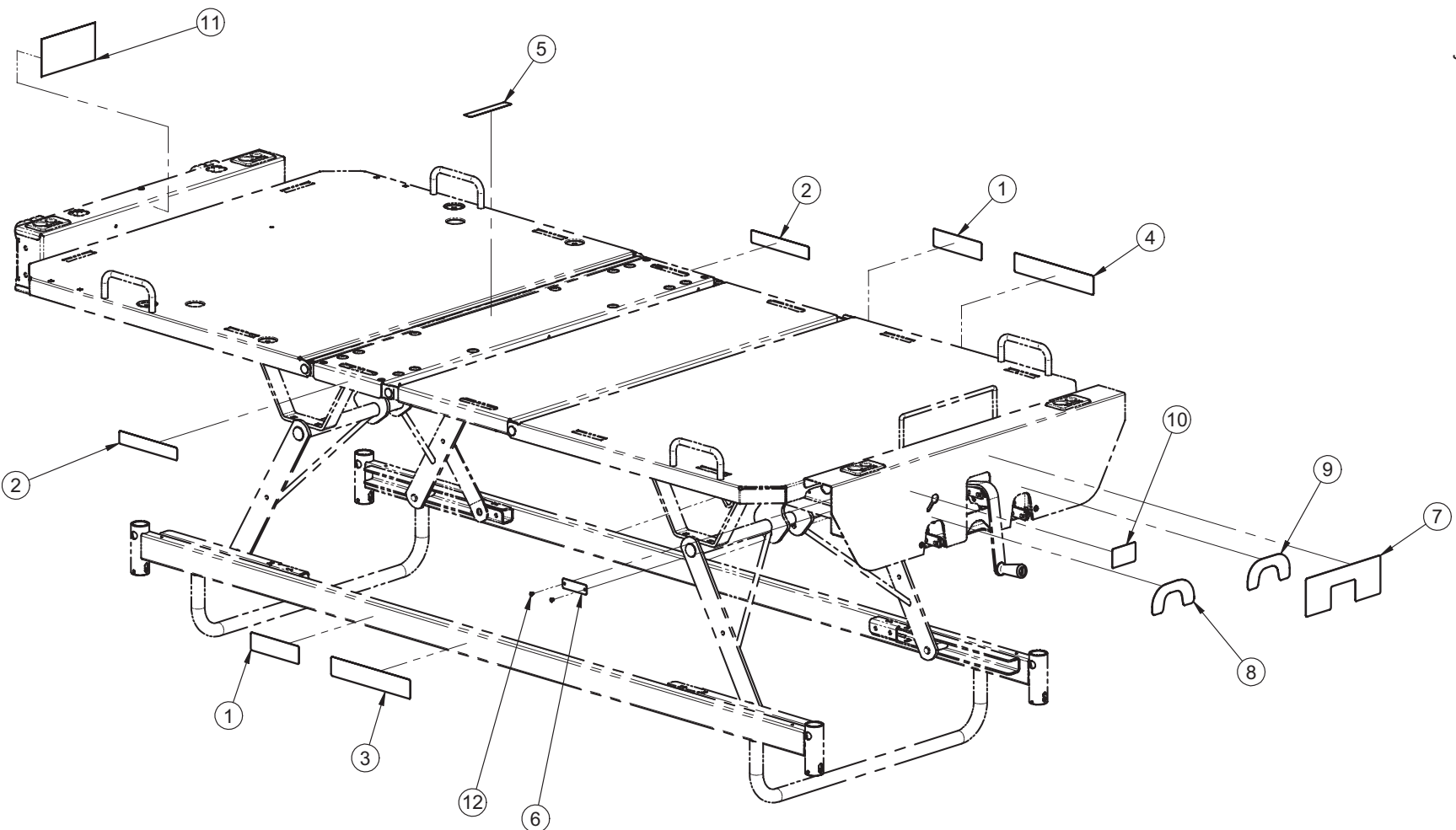


For Reference Only: OL230165-01

Item	Part No.	Part Name	Qty.
1	ED2043	3 x 5 Plastic Bag	1
2	M0028	Medium Strength Thread Locker	1
3	VB15A1N44	Hexagone Bolt 1/4" 20 UNC x 1 3/4", Grade 5	2
4	VB15A1N50	Hexagone Bolt 1/4-20 x 2 1/4" Grade 5 z.p.	2
5	VW10A08	Flat Washer 1/4" SAE z.p.	4

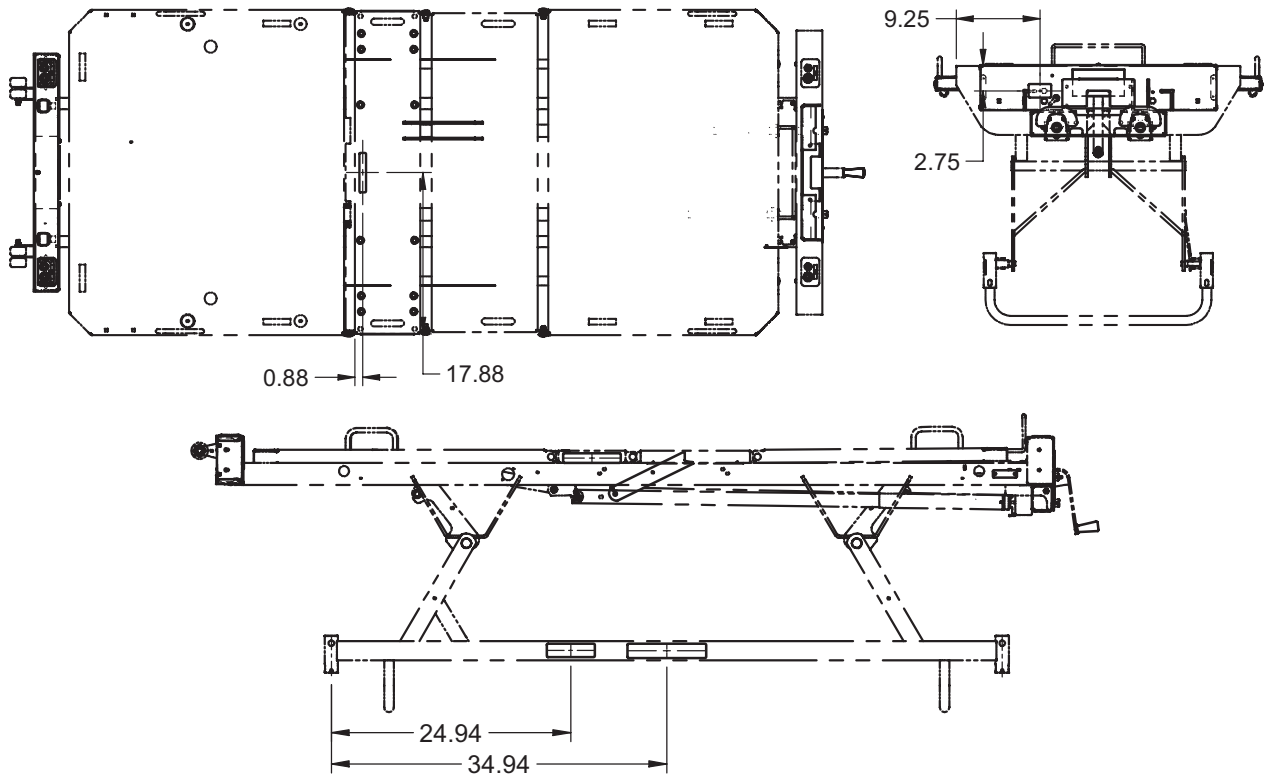
FL23M Stickers - English/Spanish - OL230184

For Reference Only: OL230184-00



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FL23M Stickers - English/Spanish - OL230184

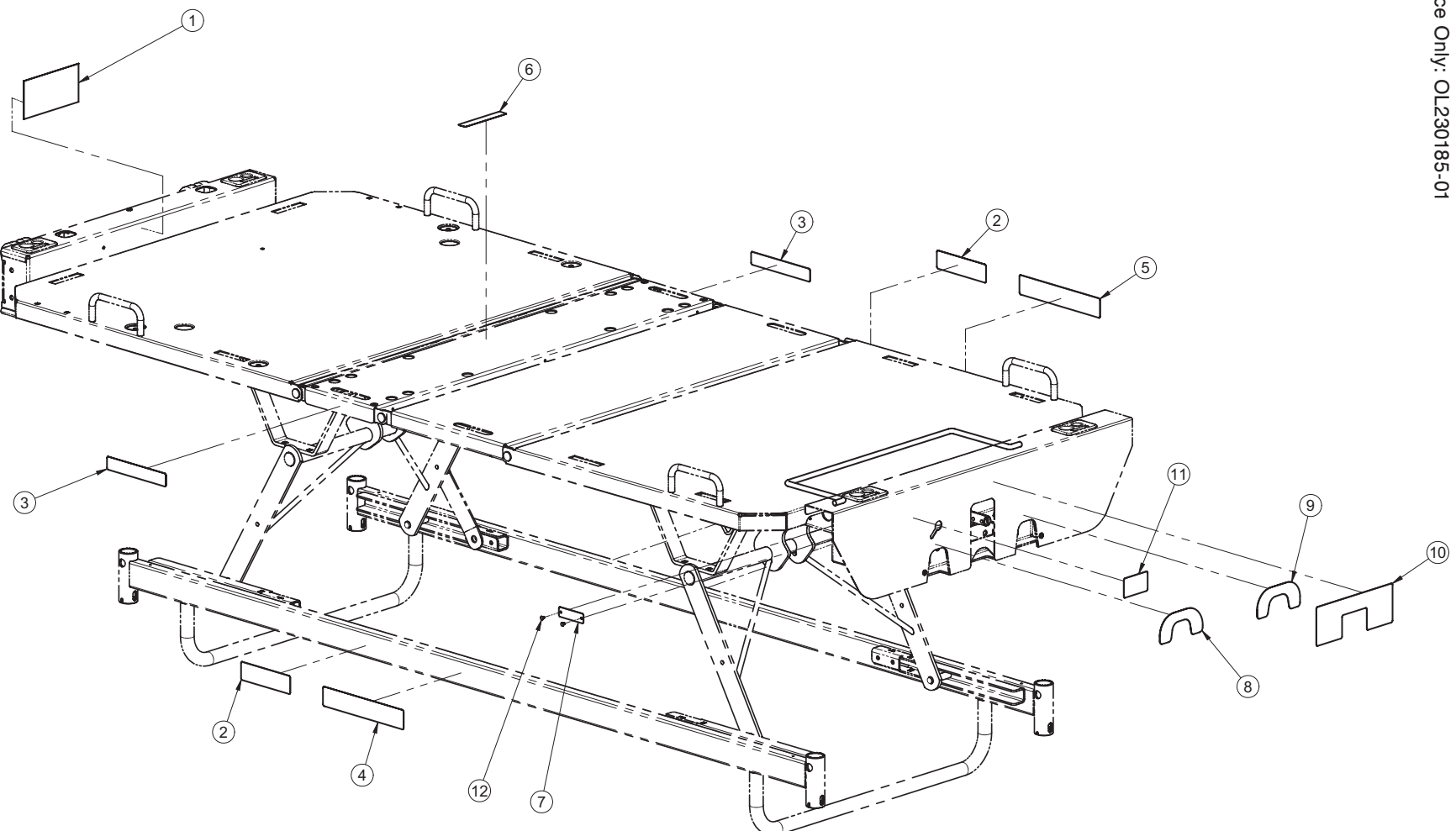


For Reference Only: OL230184-02

Item	Part No.	Part Name	Qty.
1	QE71-0346	Sticker - STRYKER	2
2	QE71-0547	Sticker - Maximum Load	2
3	QE71-0739-T	Sticker - Right Pedal Positions	1
4	QE71-0740-T	Sticker - Left Pedal Positions	1
5	QE71-0741-T	Sticker - Mattress Maximum Width	1
6	QE71-0821-T	Serial Number Plate	1
7	QE71-0838-T	Sticker - Trend Use	1
8	QE71-0841-E	Sticker - Head Section Movement	1
9	QE71-0842-E	Sticker - Thigh Section Movement	1
10	QE71-0856-F	Sticker - Cranks Use	1
11	QE71-0861-F	Sticker Manufacturer	1
12	VR11H43	"POP" Rivet #43 Dome Head	2

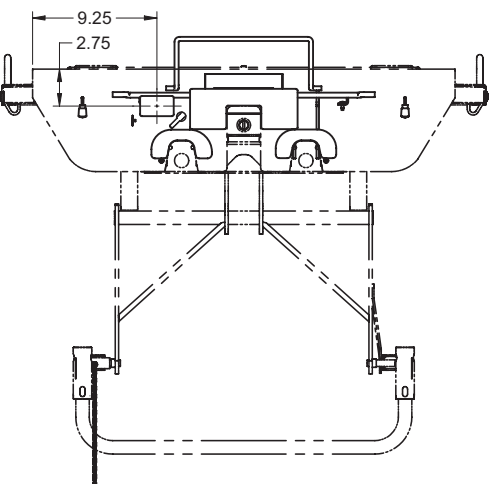
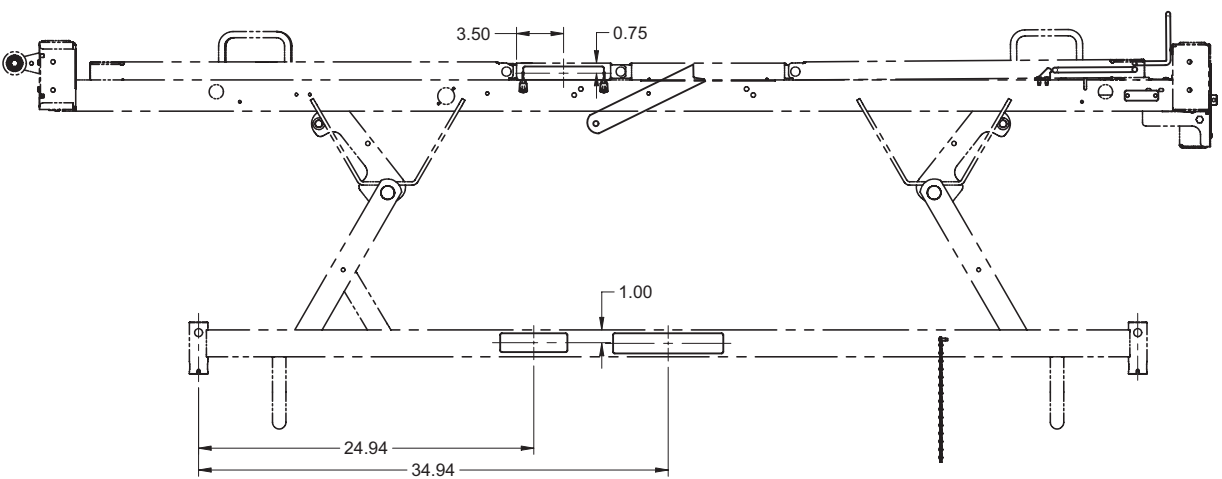
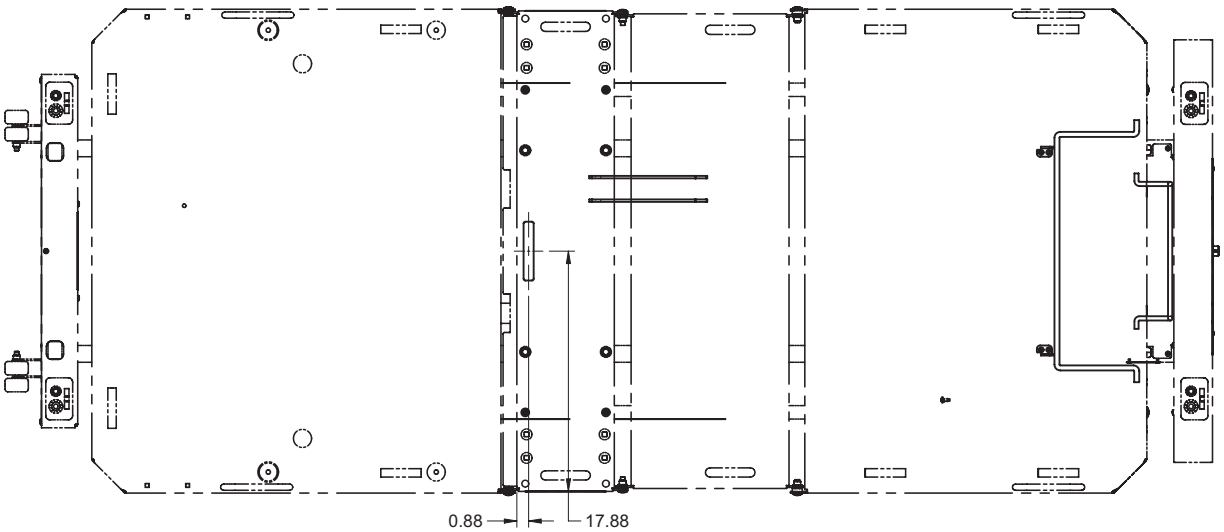
FL23M Stickers - French/English - OL230185

For Reference Only: OL230185-01



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FL23M Stickers - French/English - OL230185



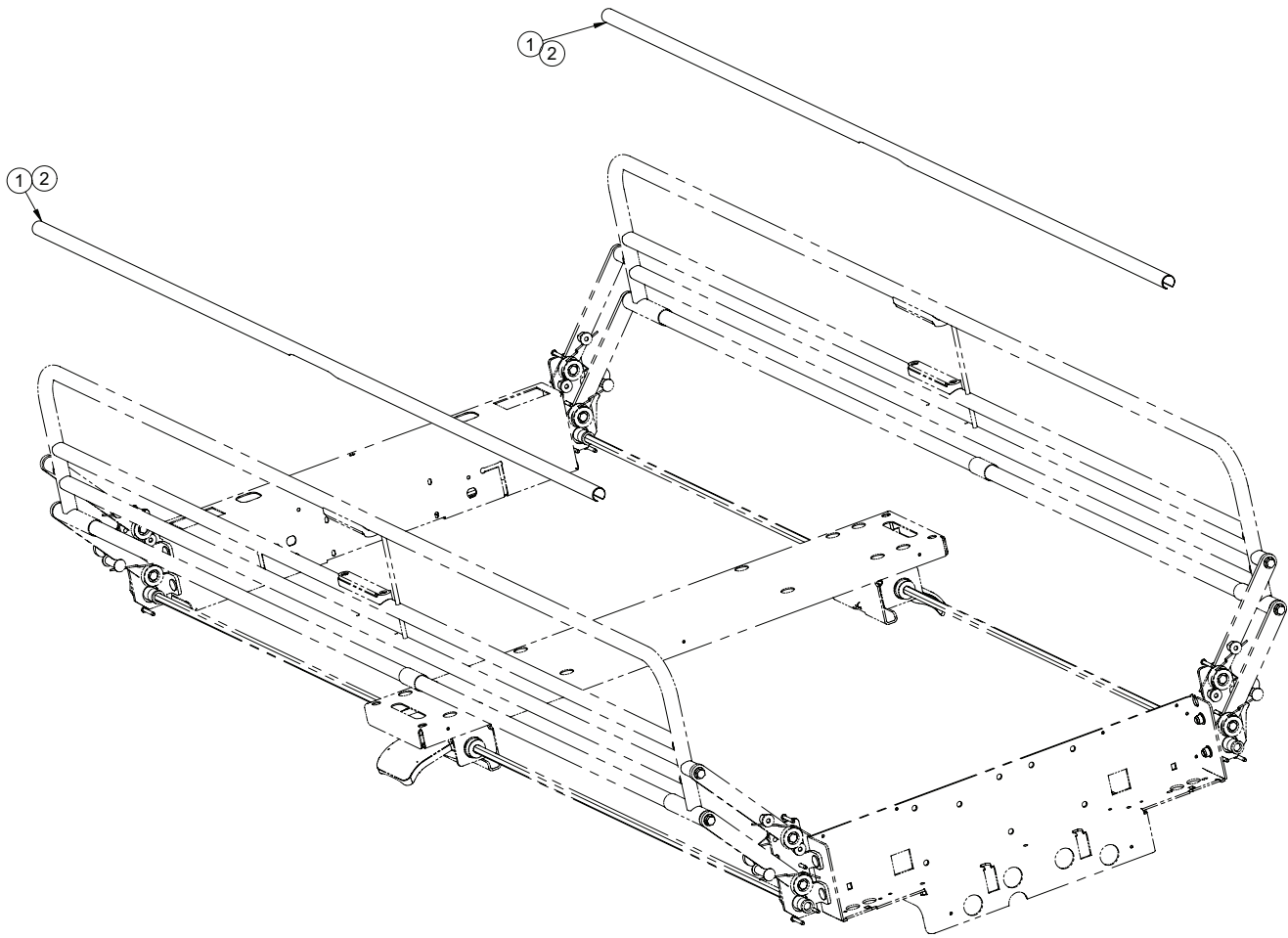
FL23M Stickers - French/English - OL230185

For Reference Only: OL230185-03

Item	Part No.	Part Name	Qty.
1	QE71-0861-F	Sticker Manufacturer	1
2	QE71-0346	Sticker - STRYKER	2
3	QE71-0547	Sticker - Maximum Load	2
4	QE71-0739-T	Sticker - Right Pedal Positions	1
5	QE71-0740-T	Sticker - Left Pedal Positions	1
6	QE71-0741-T	Sticker - Mattress Maximum Width	1
7	QE71-0821-T	Serial Number Plate	1
8	QE71-0831-F	Sticker - Head Section Movement	1
9	QE71-0832-F	Sticker - Thigh Section Movement	1
10	QE71-0838-T	Sticker - Trend Use	1
11	QE71-0856-F	Sticker - Cranks Use	1
12	VR11H43	"POP" Rivet #43 Dome Head	2

Full-Length Siderail PVC Protector - OL230208

For Reference Only: OL230208-00

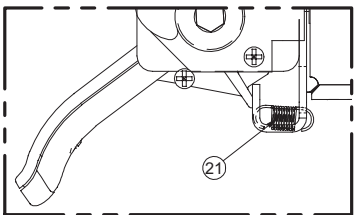


For Reference Only: OL230208-01

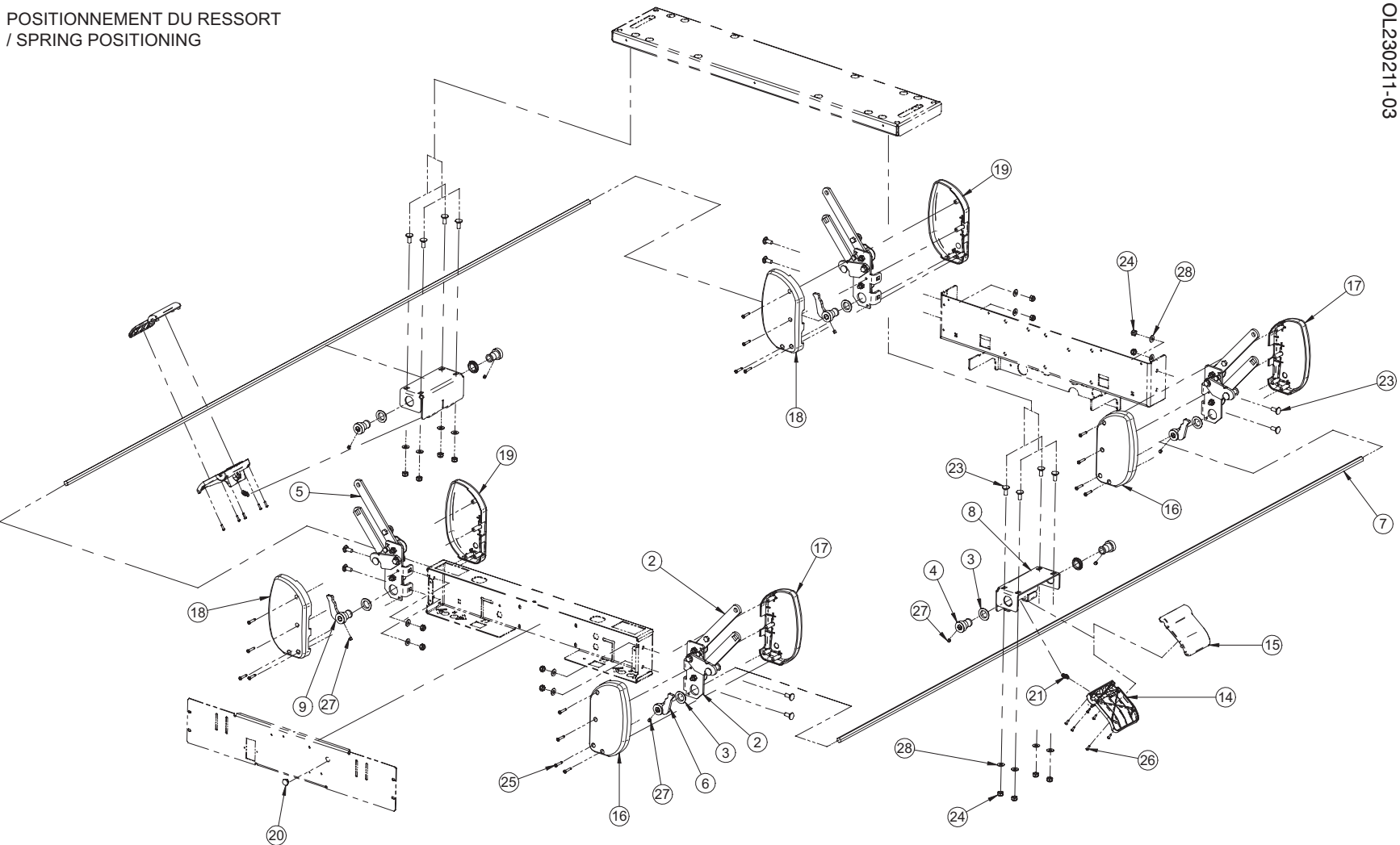
Item	Part No.	Part Name	Qty.
1	23-0641	Full-Length Siderail PVC Protector	2
2	QDF7826	3M Adhesive Tape #950 x 1"	12

Full-Length Retractable Siderail without Controls - OL230211

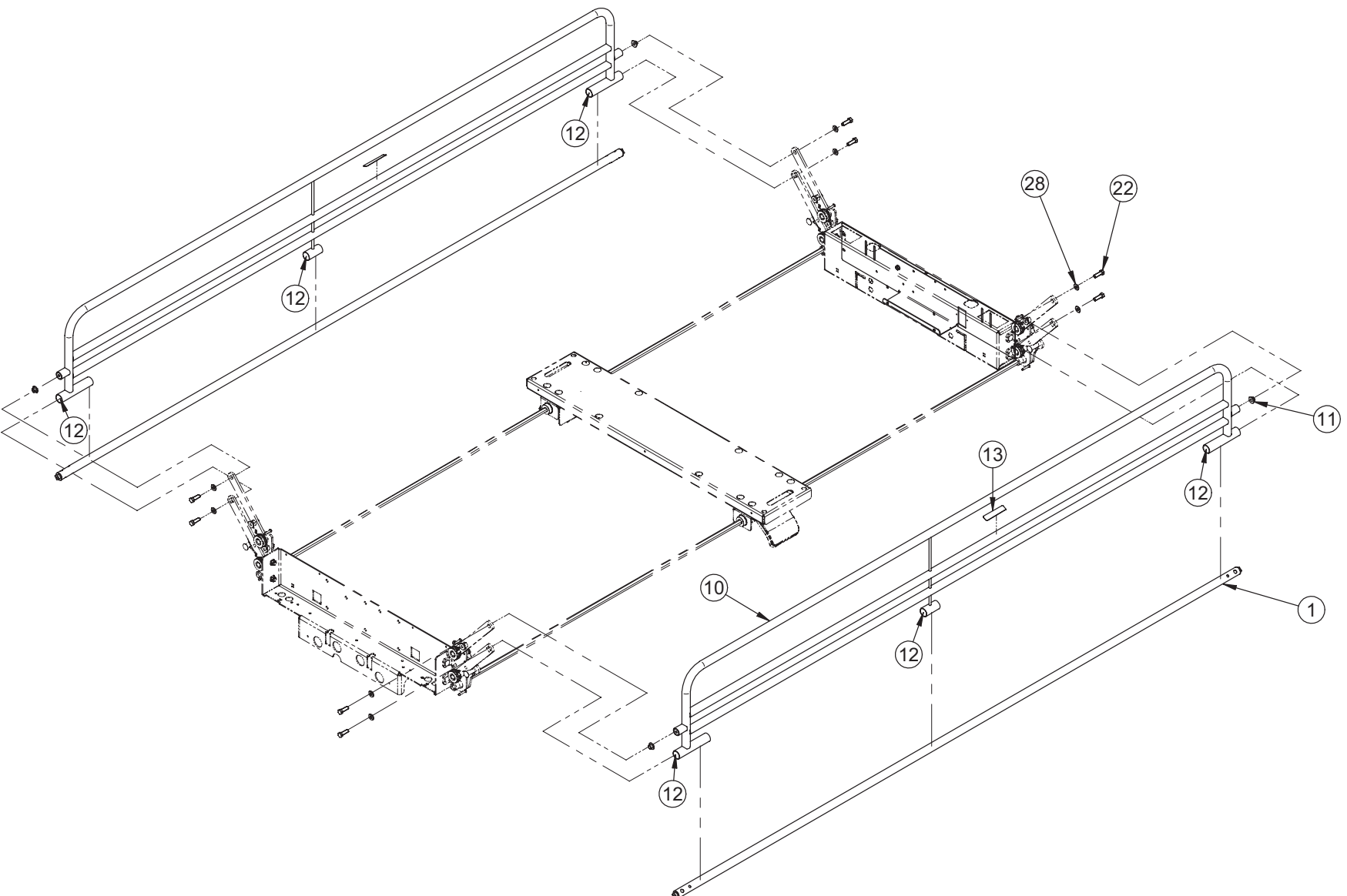
For Reference Only: OL230211-03



POSITIONNEMENT DU RESSORT
/ SPRING POSITIONING



Full-Length Retractable Siderail without Controls - OL230211



Full-Length Retractable Chromed Siderail without Controls

- OL230211

For Reference Only: OL230211CG-03

Item	Part No.	Part Name	Qty.
1	23-0492C	S.A. Pivot Tube	2
2	23-0535G	S.A. Chromed Right Siderail Mechanism	2
3	23-0541	Shoulder Spacer	8
4	23-0547Z	Lock Bushing	4
5	23-0548G	S.A. Left Siderail Mechanism	2
6	23-0549Z	S.A. Right Release Finger	2
7	23-0550Z	Release Rod - Head	2
8	23-0551G	Release Handle Bracket	2
9	23-0555Z	S.A. Left Release Finger	2
10	23-0654C	S.A. Full-Length Chromed Siderail without Controls	2
11	23-0658	Spacer	4
12	M0019	Petro Canada OG2 Grease	0.0300
13	QE71-0764T	Sticker - Handle 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 Outer Cover	2
17	QP23-0624-07	Foot Right Siderail Mechanism Outer Cover	2
18	QP23-0625-07	Head Left Siderail Mechanism 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	Release Handle Extension Spring	2
22	VB15A1O32-S	Hexagone Bolt 5/16-18 x 1" Grade 5 z.p.	8
23	VB35A1O24	Carriage Bolt (Short Neck) 5/16-18 x 3/4" Grade 5 z.p.	16
24	VE30A1O	Nylon Hexagone Locknut 5/16-18 UNC z.p.	16
25	VV23A1G32HL	Tapping Screw Pan Phillips Type High-Low #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 Hexagone Socket Set Screw 1/4-28 x 1/4"	8
28	VW10A10	Flat Washer 5/16" SAE z.p.	24

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Full-Length Retractable Painted Siderail without Controls

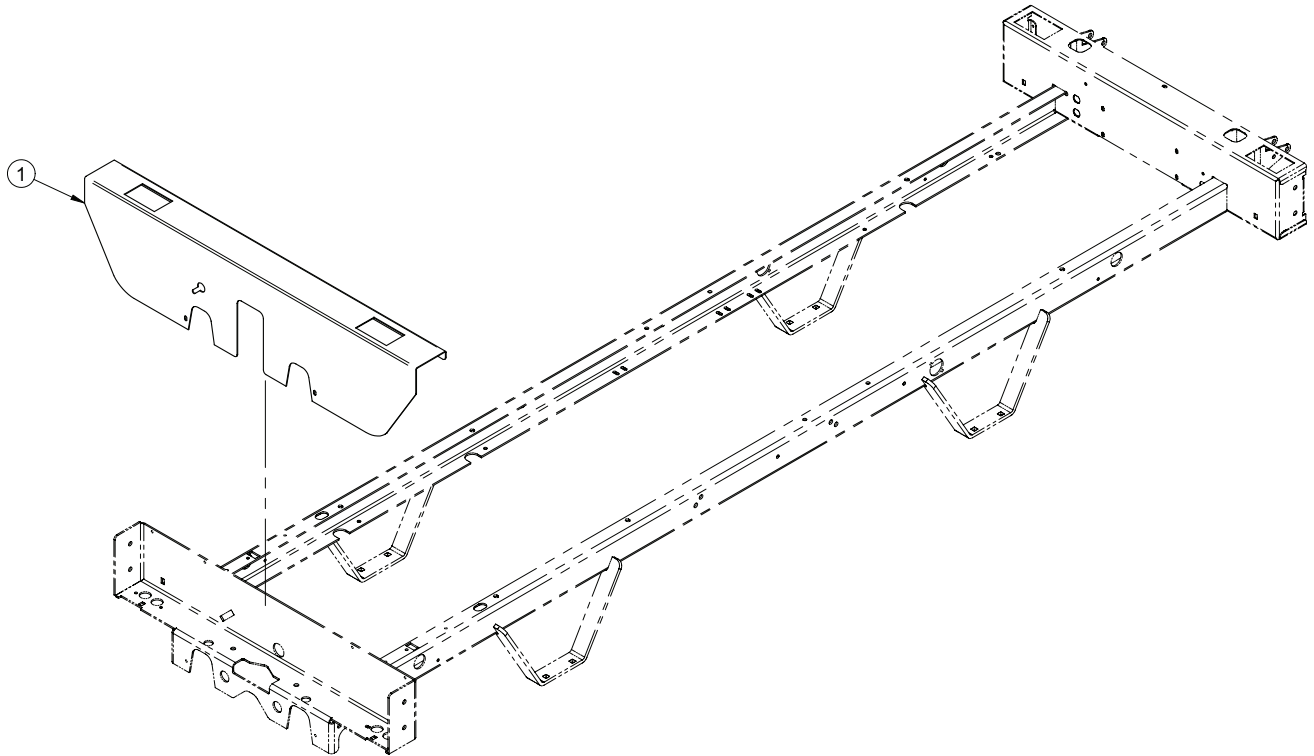
- OL230211

For Reference Only: OL230211G-03

Item	Part No.	Part Name	Qty.
1	23-0492G	S.A. Painted Pivot Tube	2
2	23-0535G	S.A. Right Siderail Mechanism	2
3	23-0541	Shoulder Spacer	8
4	23-0547Z	Lock Bushing	4
5	23-0548G	S.A. Left Siderail Mechanism	2
6	23-0549Z	S.A. Right Release Finger	2
7	23-0550Z	Release Rod - Head	2
8	23-0551G	Release Handle Bracket	2
9	23-0555Z	S.A. Left Release Finger	2
10	23-0654G	S.A. Full-Length Painted Siderail without Controls	2
11	23-0658	Spacer	4
12	M0019	Petro Canada OG2 Grease	0.0300
13	QE71-0764T	Sticker - Handle 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 Outer Cover	2
17	QP23-0624-07	Foot Right Siderail Mechanism Outer Cover	2
18	QP23-0625-07	Head Left Siderail Mechanism 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	Release Handle Extension Spring	2
22	VB15A1O32-S	Hexagone Bolt 5/16-18 x 1" Grade 5 z.p.	8
23	VB35A1O24	Carriage Bolt (Short Neck) 5/16-18 x 3/4" Grade 5 z.p.	16
24	VE30A1O	Nylon Hexagon Locknut 5/16-18 z.p.	16
25	VV23A1G32HL	Tapping Screw Pan Phillips Type High-Low #10 x 1" z.p.	16
26	VV23A9C16HL	Tapping Screw High-Low Pan Head Phillips Type B #6 x 1/2	12
27	VV61A0M08	Nylon Tipped Hexagone Socket Set Screw 1/4-28 x 1/4"	8
28	VW10A10	Flat Washer 5/16" SAE z.p.	24

Half-Length Foot Cover - OL230212

For Reference Only: OL230212-00



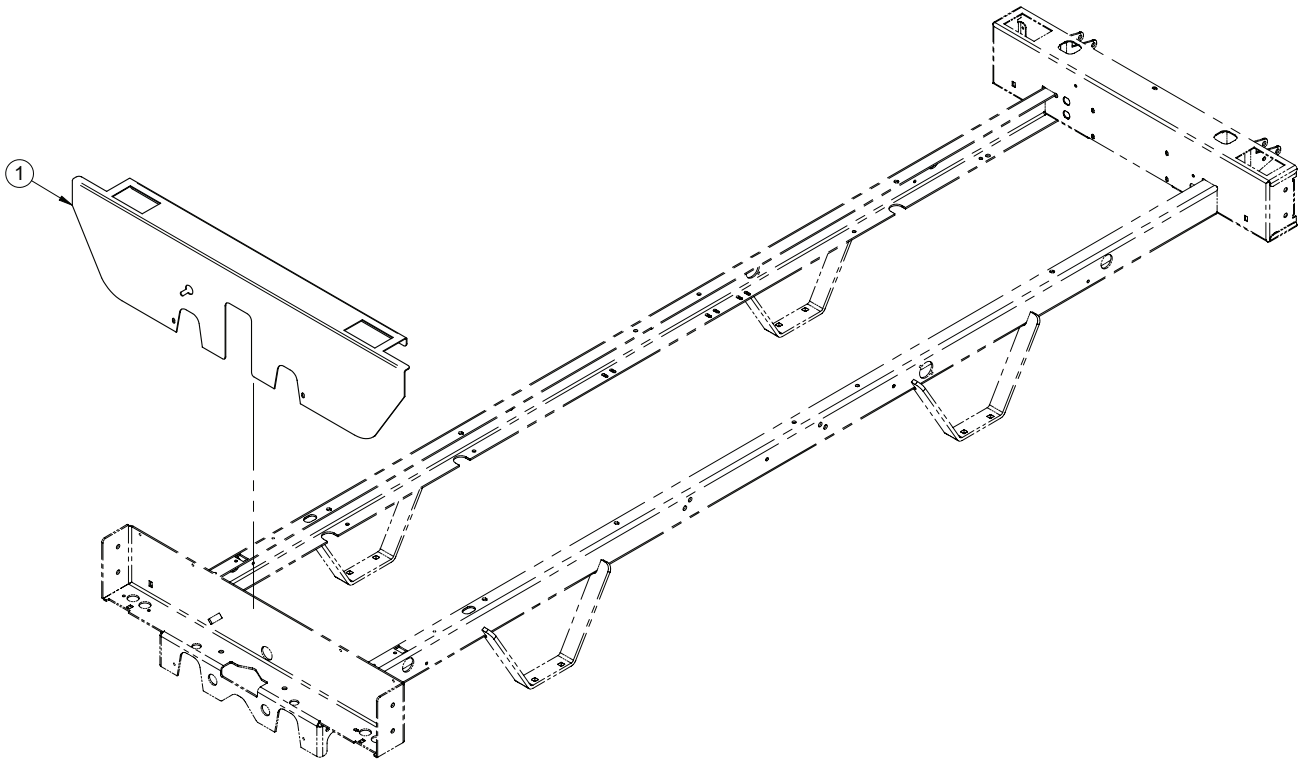
For Reference Only: OL230212G-xx

Item	Part No.	Part Name	Qty.
1	23-0361G	Foot End Casing Cover - FL23M	1

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Full-Length Foot Cover - OL230213

For Reference Only: OL230213-00

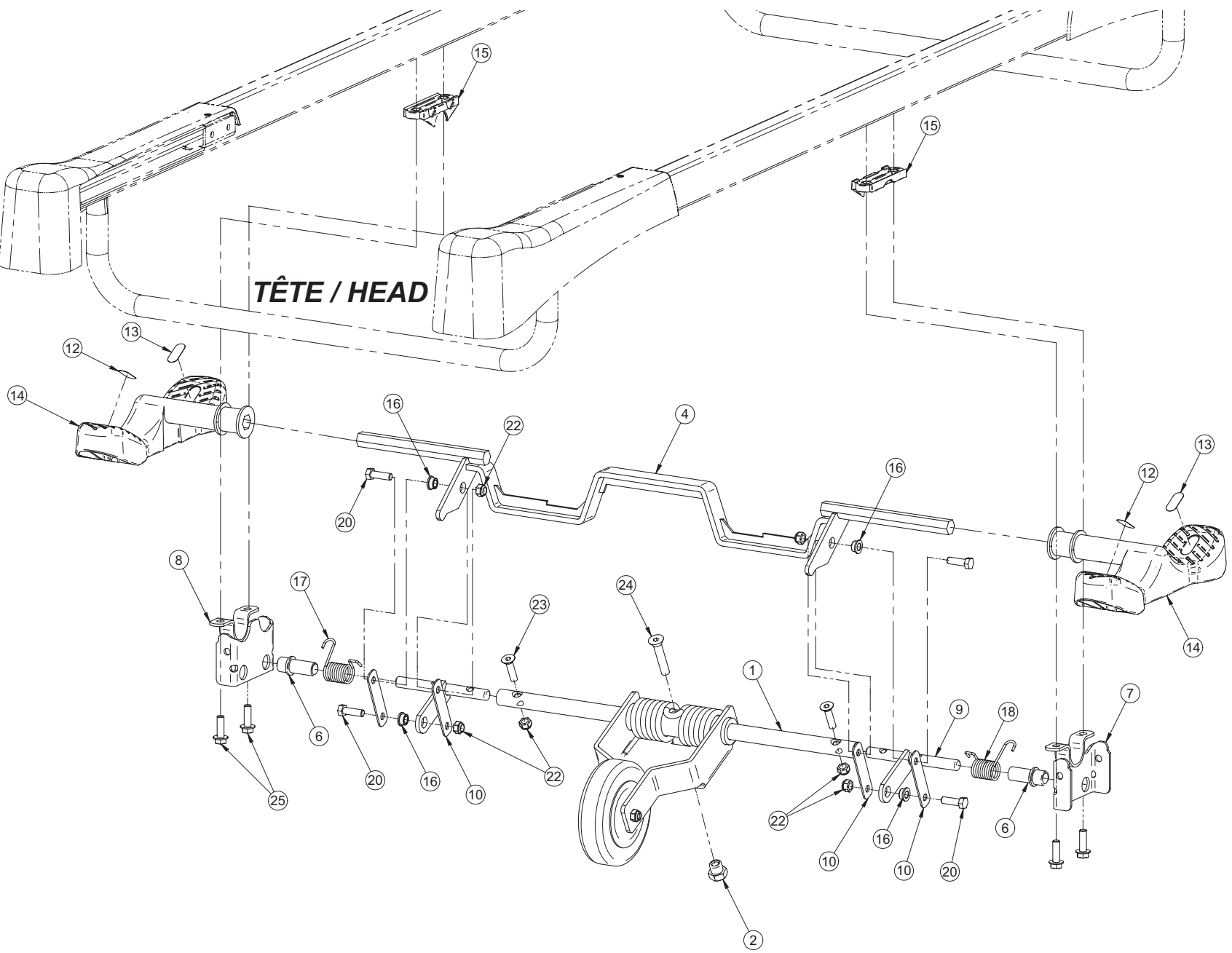


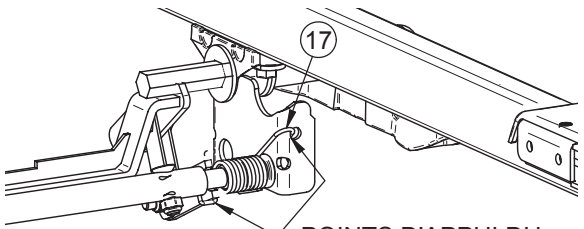
For Reference Only: OL230213G-xx

Item	Part No.	Part Name	Qty.
1	23-0653G	Full-Length Foot Cover FL23M	1

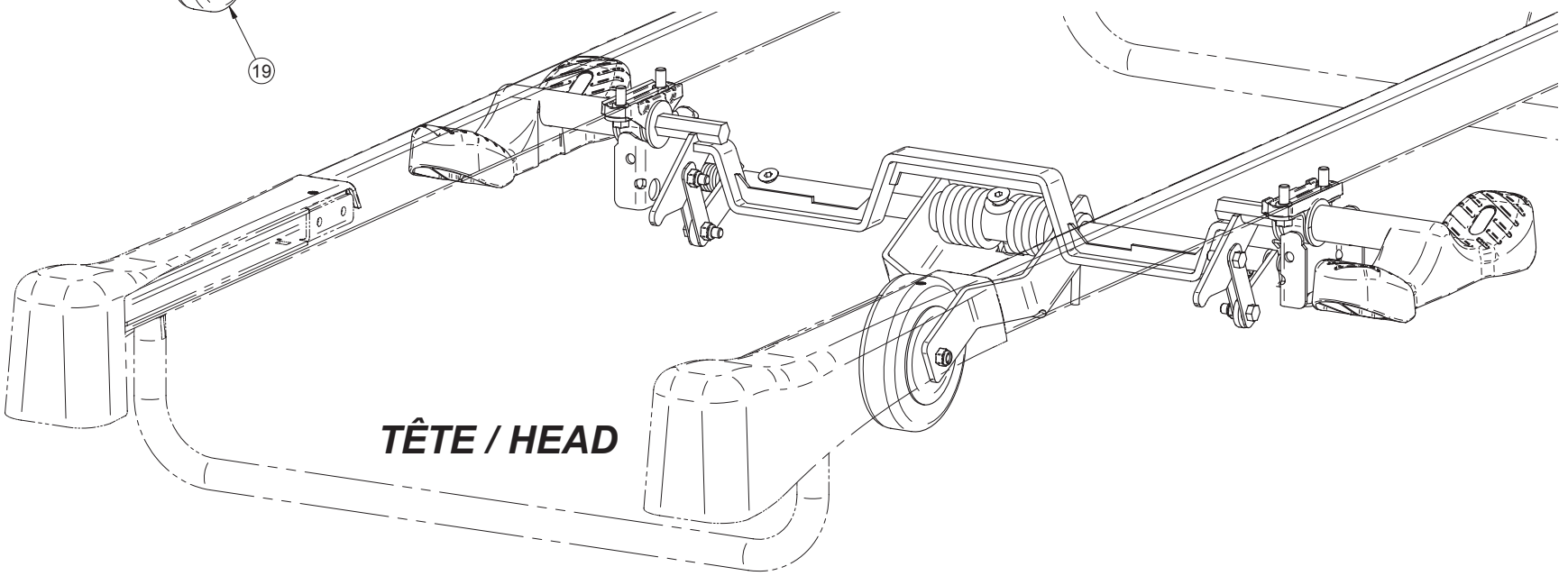
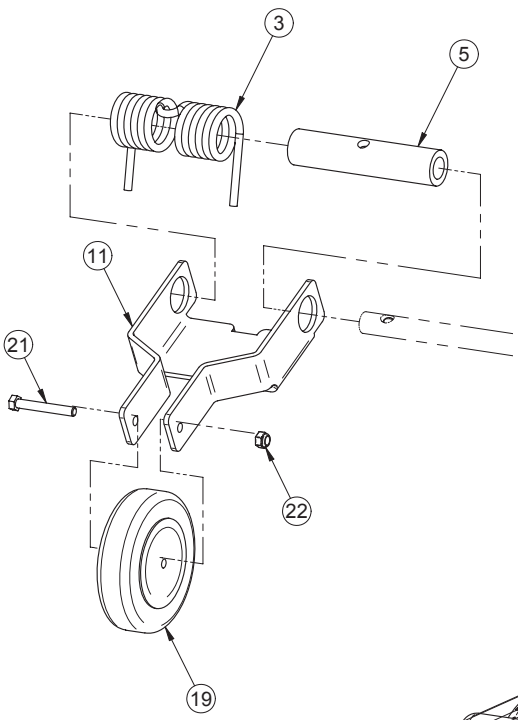
5th Wheel - OL230219

For Reference Only: OL230219-02





POINTS D'APPUI DU
RESSORT DE RAPPEL
/ RETURN SPRING'S
FULCRUMS



TÊTE / HEAD

5th Wheel - OL230219

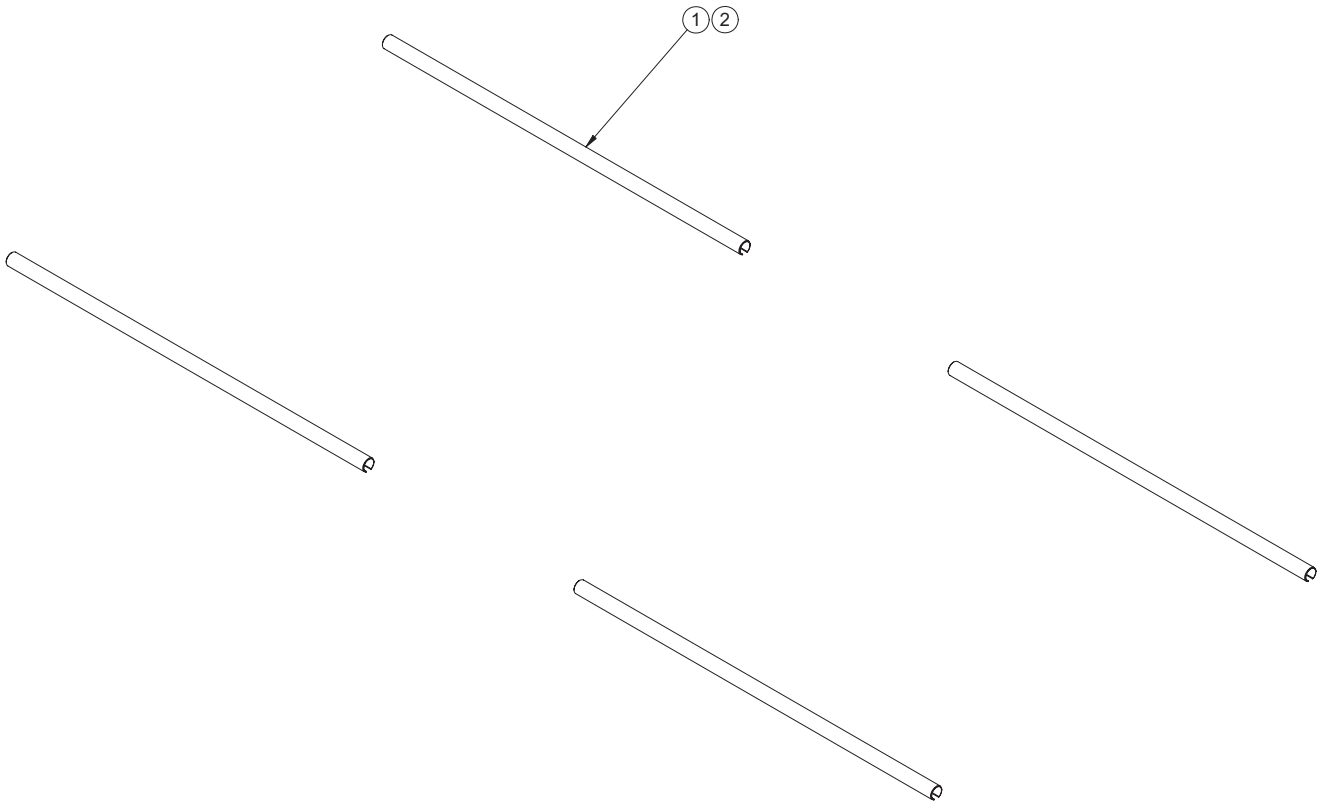
For Reference Only: OL230219G-01

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	23-0714G	S.A. Actuating Lever	1
5	25-0068	5 th Wheel Bushing	1
6	25-0340	Spacer 5/16 x 3/16	4
7	25-0581	Nylon Bushing 1/2" ID	2
8	28-0132Z	S.A. Right 5 th Wheel Support	1
9	28-0133Z	S.A. Left 5 th Wheel Support	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	VB18A1O32	Hexagone Bolt 5/16-18 x 1" Grade 5 z.p.	4
21	VB15A1O50	Hexagone Bolt 5/16-18 x 2 1/4" Grade 5 z.p.	1
22	VE30A1O	Nylon Hexagone Locknut 5/16-18 UNC z.p.	7
23	VV11A1O36	Flat Head Hexagone Socket Cap Screw 5/16-18 UNC x 1 1/4" z.p.	2
24	VV11A1P48	Flat Head Hexagone Socket Cap Screw 3/8-16 UNC x 2" z.p.	1
25	VVB4A1O32	Bolt 5/16"-18 x 1" Thread Rolling	4

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PVC Protector - Retractable Siderails - OL230226

For Reference Only: OL230226-00

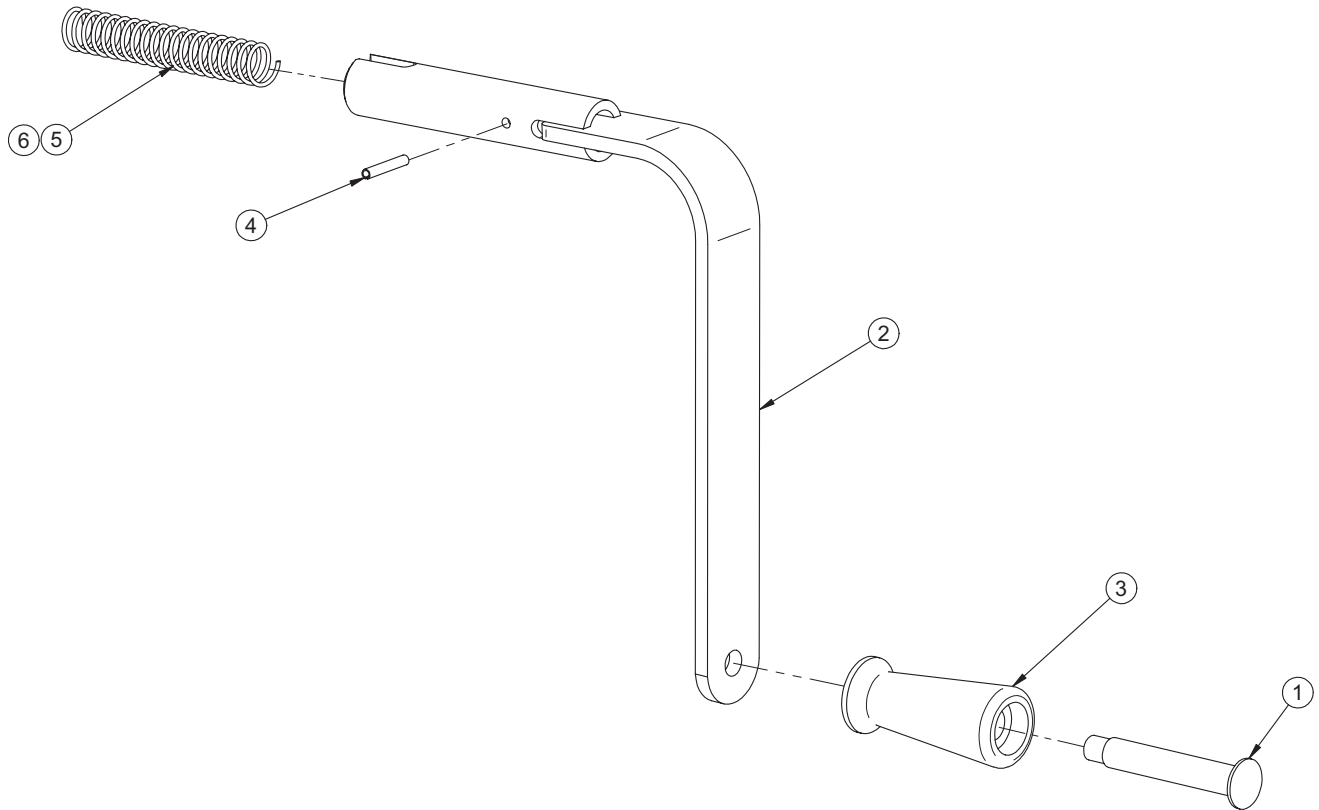


For Reference Only: OL230226-00

Item	Part No.	Part Name	Qty.
1	23-0478	PVC Protector - Foot Siderail	4
2	QDF7826	3M Adhesive Tape #950 x 1"	0.0102

Crank for Optional Removable Cranks - OL230228

For Reference Only: OL230228-00



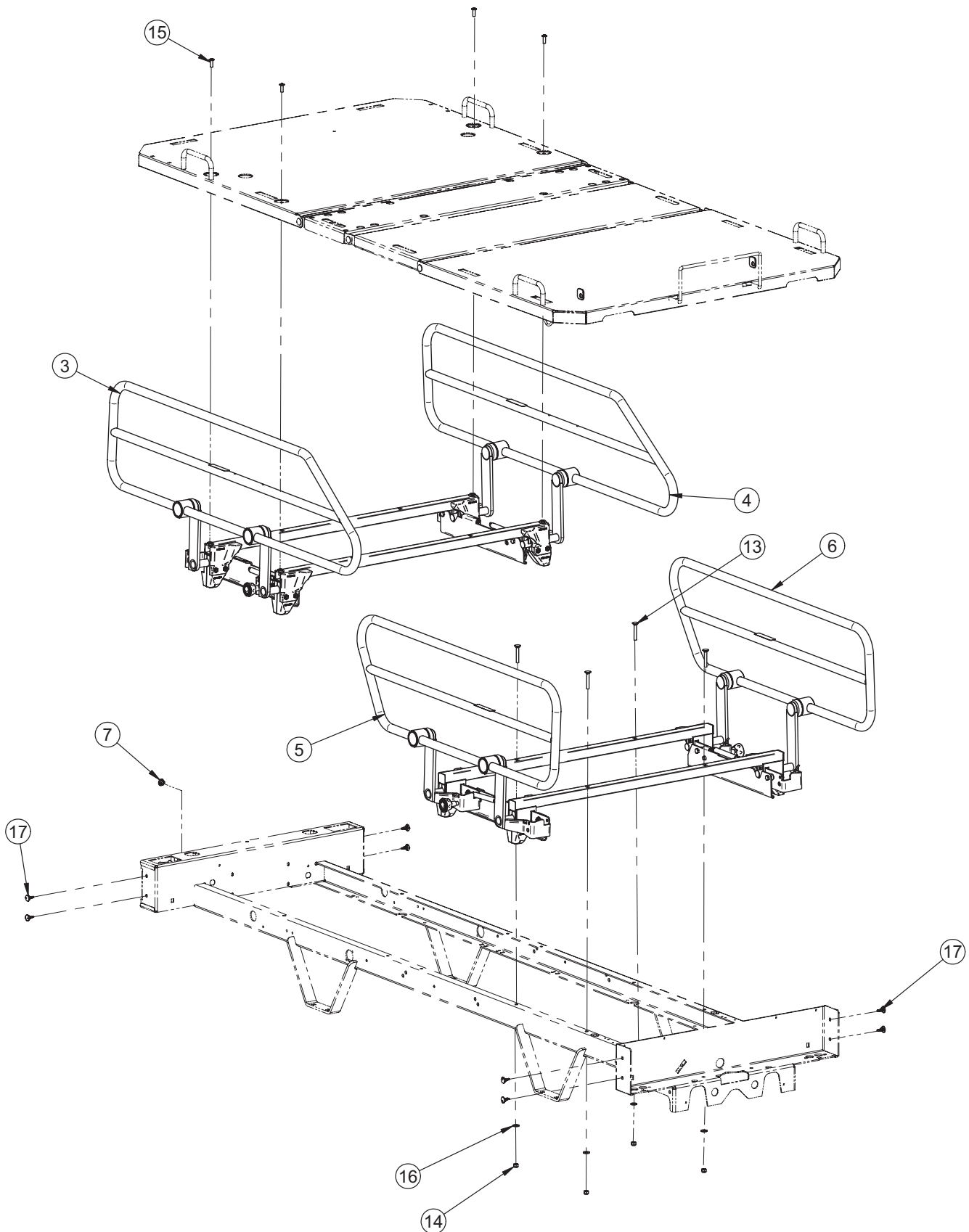
For Reference Only: OL230228-00

Item	Part No.	Part Name	Qty.
1	VR43A9439	Shoulder Rivet	1
2	16142C	S.A. Chromed Crank	1
3	QPN-9438	Black Nylon Handle	1
4	VG10B0424	Spring Pin 1/8" x 3/4"	1
5	QRC16887	Compression Spring	1
6	M0019	Petro Canada OG2 Grease	0.0300
7	ED2079	JIFFY Air Pocket Envelope	1

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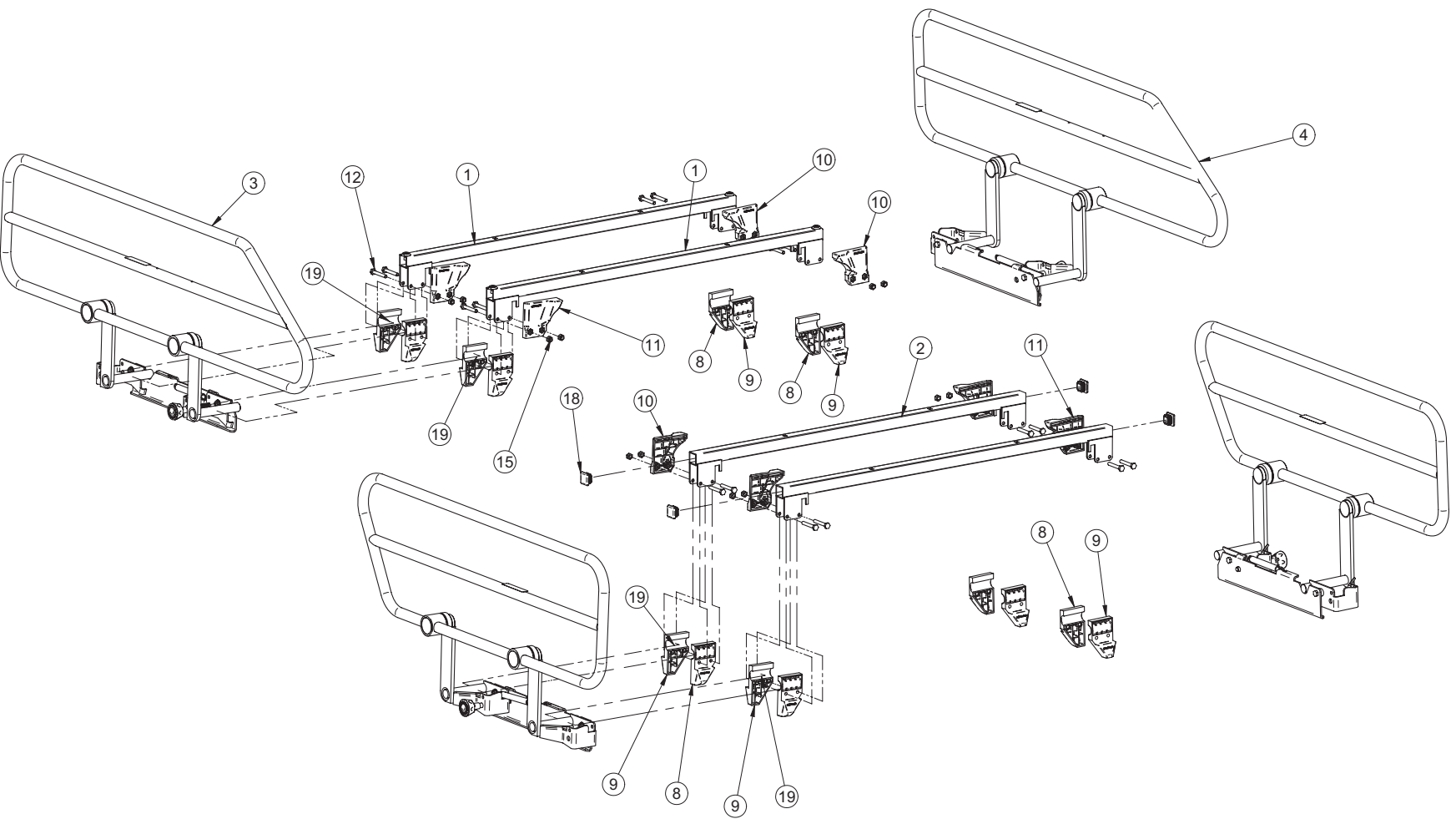
Half-Length Retractable Siderails - OL230237

For Reference Only: OL230237-00



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Half-Length Retractable Siderails - OL230237



Half-Length Retractable Painted Siderails - OL230237

For Reference Only: OL230237G-xx

Item	Part No.	Part Name	Qty.
1	23-0188	Siderail Support and Insertion	2
2	23-0650G	S.A. Siderail Support	2
3	23-0759G	S.A. Painted Right Head Siderail	1
4	23-0760G	S.A. Painted Left Head Siderail	1
5	23-0757G	S.A. Painted Right Foot Siderail	1
6	23-0758G	S.A. Painted Left Foot Siderail	1
7	QPCE1207	Cap	1
8	QP18-0240-07	Anchorage - Left Glider	8
9	QP18-0241-07	Anchorage - Right Glider	8
10	QP18-0243-07	Rear Right Glider	4
11	QP18-0242-07	Rear Left Glider	4
12	VB15A1N44	Bolt 1/4"-20 x 1 3/4" LG Grade 5	16
13	VB35A1N44	Carriage Bolt 1/4-20 x 1 3/4" Grade 5	4
14	VE30A1N	Nylon Locknut 1/4-20	20
15	VV37A1N24-S	Machine Screw Truss Phillips 1/4-20 x 3/4" Scotch Grip	4
16	VW10A08	Flat Washer 1/4 x 1/16	4
17	QP23-0735	PCB Support	8
18	QDF7908	Black Cap 1" #SQR-1-10-14	4
19	M0019	OG2 Grade Grease	1

Half-Length Retractable Chromed Siderails - OL230237

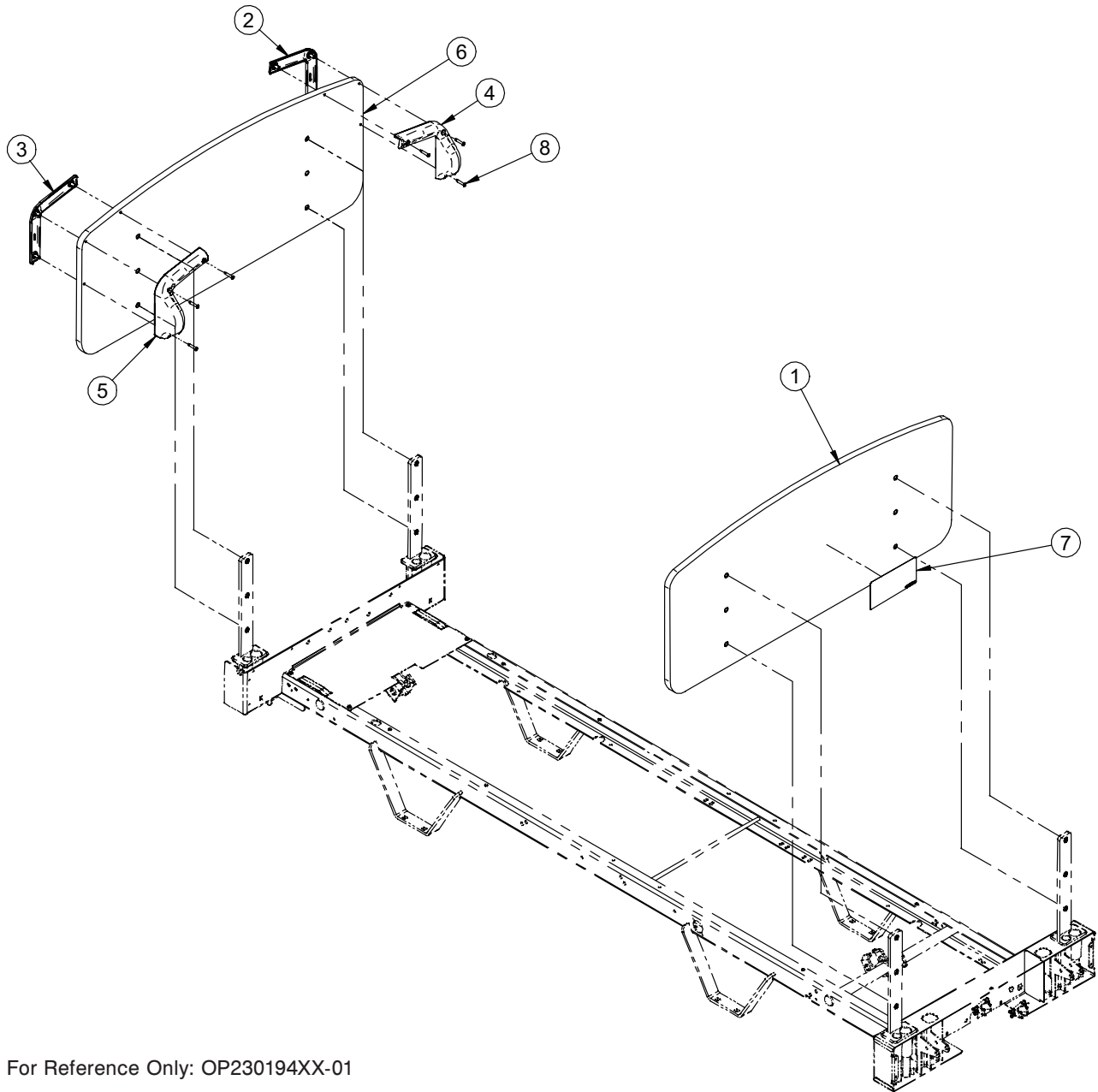
For Reference Only: OL230237CG-xx

Item	Part No.	Part Name	Qty.
1	23-0188	Siderail Support and Insertion	2
2	23-0650G	S.A. Siderail Support	2
3	23-0759C	S.A. Chromed Right Head Siderail	1
4	23-0760C	S.A. Chromed Left Head Siderail	1
5	23-0757C	S.A. Chromed Right Foot Siderail	1
6	23-0758C	S.A. Chromed Left Foot Siderail	1
7	QPCE1207	Cap	1
8	QP18-0240-07	Anchorage - Left Glider	8
9	QP18-0241-07	Anchorage - Right Glider	8
10	QP18-0243-07	Rear Right Glider	4
11	QP18-0242-07	Rear Left Glider	4
12	VB15A1N44	Bolt 1/4"-20 x 1 3/4" LG Grade 5	16
13	VB35A1N44	Carriage Bolt 1/4-20 x 1 3/4" Grade 5	4
14	VE30A1N	Nylon Locknut 1/4-20	20
15	VV37A1N24-S	Machine Screw Truss Phillips 1/4-20 x 3/4" Scotch Grip	4
16	VW10A08	Flat Washer 1/4 x 1/16	4
17	QP23-0735	PCB Support	8
18	QDF7908	Black Cap 1" #SQR-1-10-14	4
19	M0019	OG2 Grade Grease	1

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Melamine Board without Control Panel - OP230194

For Reference Only: OP230194XX-00

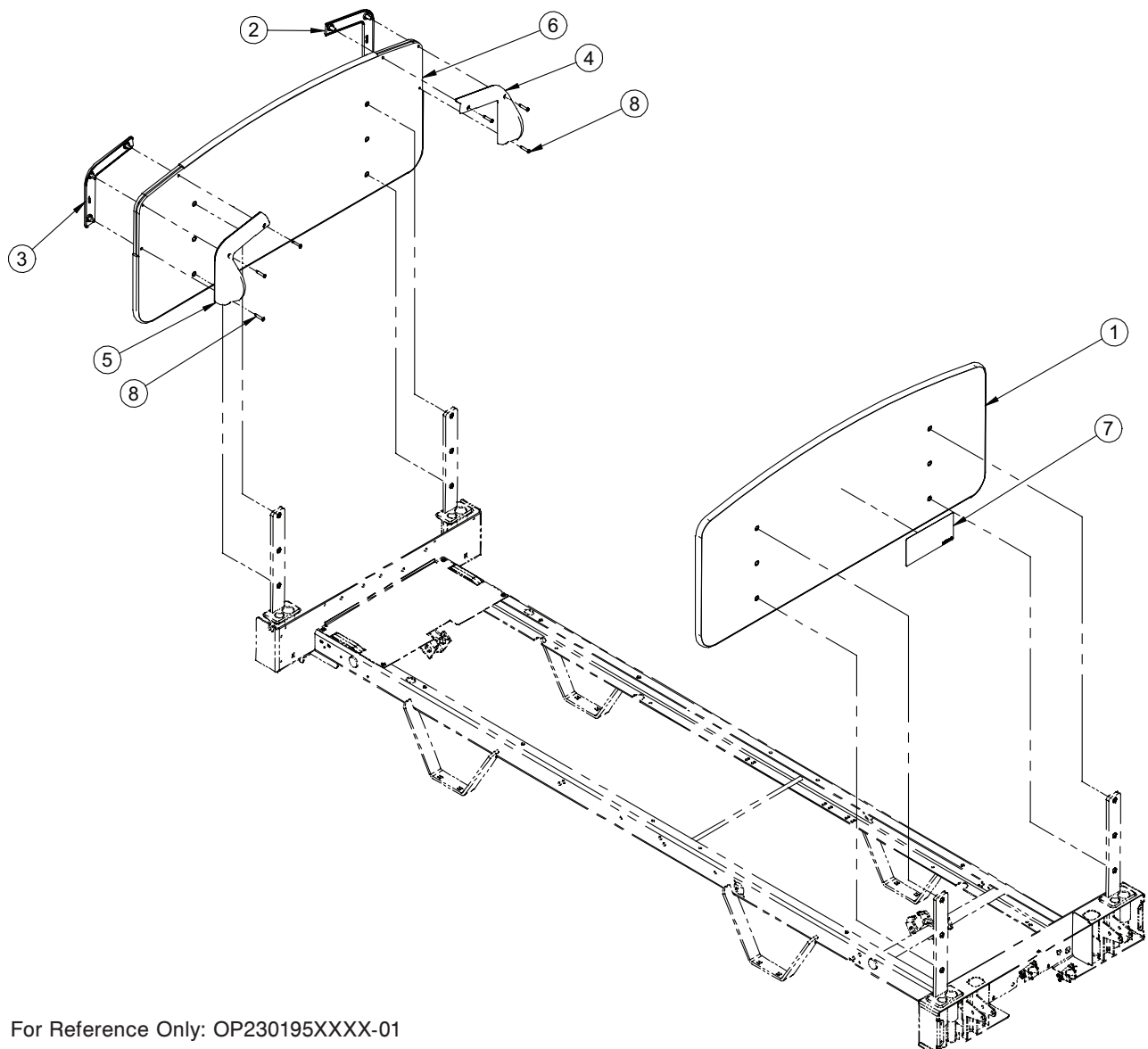


For Reference Only: OP230194XX-01

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 - Head Board Installation	1
8	VV23A1G32HL	Tapping Screw Pan Phillips Type High-Low #10 x 1" z.p.	6

Laminated MDF Board without Control Panel - OP230195

For Reference Only: OP230195XXXX-00



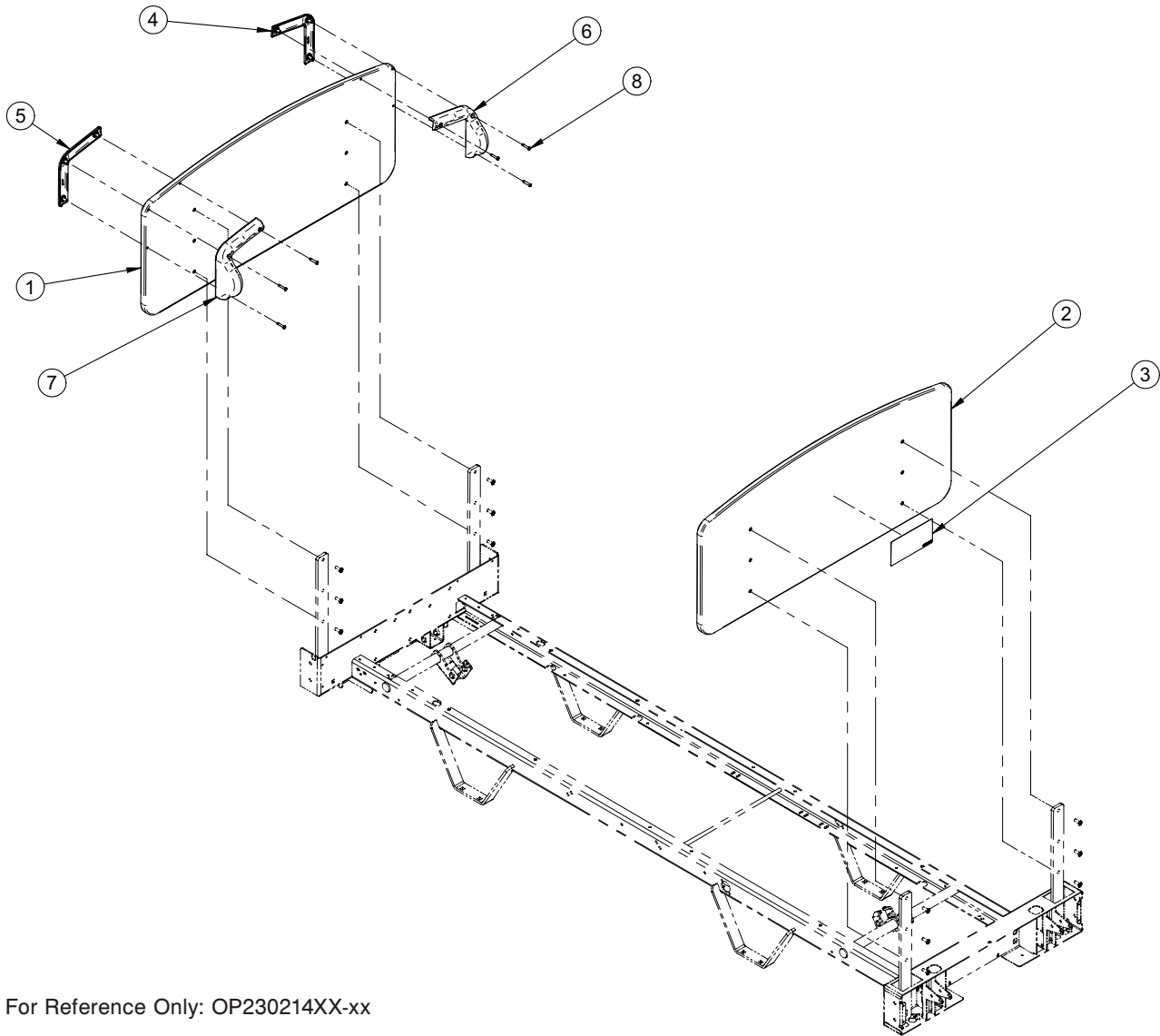
For Reference Only: OP230195XXXX-01

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 - Head Board Installation	1
8	VV23A1G32HL	Tapping Screw Pan Head Phillips Type High-Low #10 x 1" z.p.	6

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Solid Wood Board without Control Panel - OP230214

For Reference Only: OP230214XX-00



For Reference Only: OP230214XX-xx

Item	Part No.	Part Name	Qty.
1	23-0660XX	S.A. Solid Wood Board without Control Panel	1
2	23-0634XX	Head Solid Core Laminated Board	1
3	QE14376-T	Sticker - Head Board 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

Warranty

LIMITED WARRANTY

Stryker Medical Division, a division of Stryker Corporation, warrants to the original purchaser the Manual MedSurg Bed Model FL23M 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

Warranty

SERVICE CONTRACT PROGRAMS

Stryker offers the following service contract programs:

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

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

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

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

RETURN AUTHORIZATION

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

DAMAGED MERCHANDISE

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

INTERNATIONAL WARRANTY CLAUSE

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

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