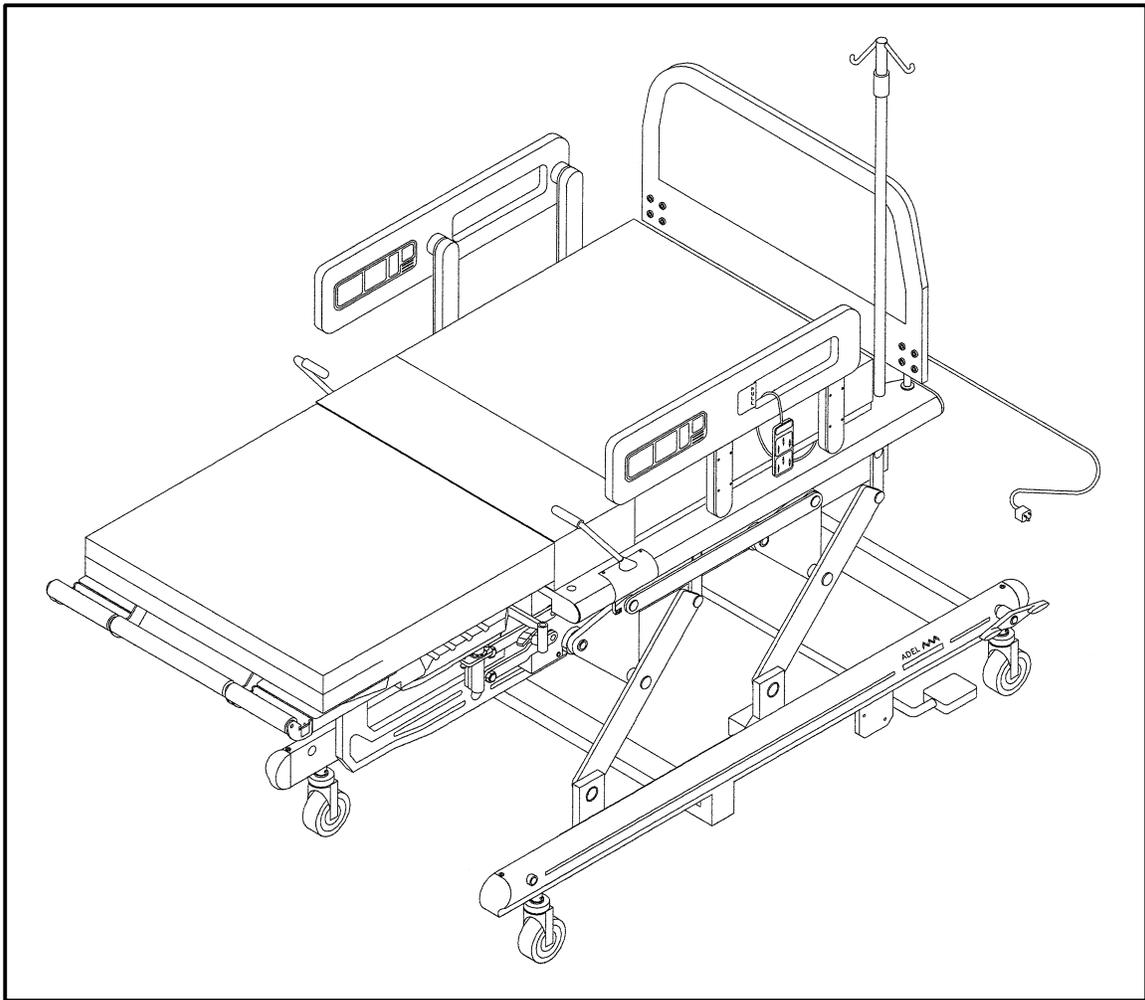


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**IMPORTANT**  
File in your  
maintenance  
records

**stryker**<sup>®</sup>  
**Adel**



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## **2100 Childbearing Bed**

---

# **MAINTENANCE MANUAL**

**For Parts or Technical Assistance**  
**1-800-327-0770**

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# Introduction

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## INTRODUCTION

This manual is designed to assist you with the maintenance of the 2100 Childbearing Bed. Read it thoroughly before using the equipment or beginning any maintenance on it.

## SPECIFICATIONS

Maximum Weight Capacity	550 pounds (249 kilograms)
Electrical	3 motor function: Head–Bed–Foot 6 function patient comfort 120 VAC, 60 Hz, 6.5 Amp – 105 to 135 VAC operating range. Current leakage less than 100 microamperes. Hospital grade plug and 3–wire heavy duty cord. Compatible with non–flammable anesthetic agents and oxygen by nasal catheter or mask.

---

### WARNING

The 2100 is equipped with a hospital grade plug for protection against shock hazard. It must be plugged directly into a properly grounded three–prong receptacle. Grounding reliability can be achieved only when a hospital grade receptacle is used.

---

### WARNING / CAUTION / NOTE DEFINITION

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

---

### WARNING

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

---

### CAUTION

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

---

### NOTE

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

To assure its proper use and the safety of patients and staff, the 2100 has been marked with the following caution and warning labels:

**DANGER** Explosion Hazard – do not use in the presence of flammable anesthetics.

**CAUTION** This unit is equipped with a hospital grade attachment plug. Grounding reliability can be achieved only when equipment is connected to equivalent receptacle.

**CAUTION** Electrical shock hazard. Do not remove cover panels. Refer all servicing to qualified personnel.

**CAUTION** Disconnect power cord before hand cranking. Remove hand crank before connecting power cord.

# Unpacking and Initial Set-Up Procedures

---

## UNPACKING INSTRUCTIONS

Refer to unpacking instructions located on outside of marked crate.

## SET-UP PROCEDURES

It is important that the Stryker Adel 2100 Childbearing Bed is working properly before it is put into service. The following list will help assure that each part of the bed is tested.

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

---

## WARNING

The 2100 is equipped with a hospital grade plug for protection against shock hazard. It must be plugged directly into a properly grounded three-prong receptacle. Grounding reliability can be achieved only when a hospital grade receptacle is used.

---

- Assure the siderails raise and lower smoothly and lock in the up position.
- Assure that the brakes hold when the brake pedal is engaged (see page 5 for adjustment).
- Run through each function on the hand pendant to assure that each function is working properly.

Beds equipped with siderail control option only:

- Plug the interface cable into the 37 pin connector in the litter frame at the head end of the bed, and into the "Patient Station", "Head Wall", "Docking Station", or equivalent (whichever applies).
- Run through each function on the siderail control panels to assure that each function is working properly.

# Preventative Maintenance

## PREVENTATIVE MAINTENANCE PROGRAM

Observation of the following scheduled maintenance and inspection program will help assure continuous trouble-free operation of your 2100 Childbearing Bed.

ACTIVITY	MONTHLY INTERVAL	TOOLS REQUIRED	SUPPLIES REQUIRED
Lubricate screw threads on leg support clamping knobs.	6	N/A	Lubricant
Inspect and adjust wheel brake shoes on central locking casters.*	24	Phillips screwdriver	N/A
Lubricate pin joints on lift mechanism.	6	N/A	Lubricant
Inspect power cord and plug for damage due to abrasion or cutting.	12	N/A	N/A
Inspect exposed metal surfaces and apply touch-up paint where required.	12	N/A	Touch-up paint
Check electrical safety by testing for leakage current and ground continuity.	12	Electrical testing equipment	N/A
Scratched wood components. Remove loose dust; spray a light coat of Varathane over the area. Apply a second coat in approximately six hours.	N/A	N/A	Satin Varathane #91 Flecto Brand
Remove stains from mattress covers.	Each occurrence		See page 19.
Inspect snap rings for integrity.	12	N/A	N/A
Check battery backup by unplugging the bed power cord and testing Nurse Call	6	N/A	9V Alkaline Batteries

\*To adjust brakes, remove 6 mm screw from caster. Rotate housing to the right (counterclockwise) to reduce braking force or to the left (clockwise) to increase braking force. Reinstall the 6 mm screw.

### NOTE

Left front caster is not a brake caster

# Troubleshooting Guide

## TROUBLESHOOTING GUIDE

The following chart is intended to assist qualified service personnel with identifying and correcting problems associated with the electrical/pneumatic systems. The schematic diagrams on the following pages should be used for reference. A volt–ohm meter will be required.

### WARNING

Because these problem solving methods may involve interchanging motor plugs or pneumatic air lines to isolate the fault or probable cause, the patient should always be removed from the bed before corrective action is taken.

PROBLEM/SYMPTOM	POSSIBLE CAUSE	RECOMMENDED ACTION
No motors functioning.	No power supply. Defective power cord or plug. Defective electrical controller.	Test voltage at wall receptacle Examine and test for continuity. Test input and output voltages (see schematic page 20). Listen for relay actuation.
One motor not functioning – head, bed, or foot.	Loose wire at motor plug or receptacle. Defective motor. Defective pendant controller. Defective membrane switch. Defective electrical controller (circuit board).	Inspect connectors; check continuity.  Interchange motor plugs to isolate. Interchange motor plugs to isolate. Check continuity. Test input and output voltages (see schematic page 20). Listen for relay actuation.
Incorrect travel limits – head, bed or foot.	Physical blockage of movement. Defective motor or drive screw. Motor drive tube out of adjustment.	Visually inspect moving parts. Replace motor (see pages 8–10). Reset (see motor replacement–pages 8–10)
One pneumatic solenoid not functioning – lumbar, seat left or seat right.	Loose wire at solenoid plug. Defective solenoid.  Defective pendant controller.  Defective membrane switch. Defective electrical controller (circuit board).	Inspect connectors; check continuity. Interchange solenoid plugs to isolate. Replace valves. Interchange solenoid plugs to isolate. Check continuity. Test input and output voltages (see schematic page 20).
No inflation of lumbar, seat left, or seat right.	Leaking bladder.	Replace head/seat mattress
No inflation or deflation of lumbar, seat left, or seat right.	Kinked lines.  Defective solenoid.	Inspect lines for kinking: re–route, if necessary. Interchange solenoid plugs to isolate.
No air to operate lumbar, seat left, or seat right.	Defective compressor. Loose wire at motor connectors.	Replace compressor (see page 13). Inspect connectors: check continuity; test voltage.
Slow filling or emptying of air from lumbar, seat left, or seat right.	Kinked lines.  Contamination in valves.	Inspect lines for kinking: re–route, if necessary. Isolate by switching lines. Replace manifold (see page 14).
Squeal or noise in lift mechanism Or, bed motor labors when bed is fully loaded with 550 pounds.	Dry joints. Defective counterbalance spring.	See prev. maintenance (page 5). Check for obstruction, bent rod, or bent housing. Remove obstruction. Replace spring (see page 17).

# Preventative Maintenance

## TROUBLESHOOTING GUIDE (CONTINUED)

PROBLEM/SYMPTOM	POSSIBLE CAUSE	RECOMMENDED ACTION
Bed does not tilt when lever is depressed.	Tilt spring out of adjustment. Defective tilt spring.	Readjust spring length. Replace spring (see page 18).
Bed tilts when weight is applied to opposite ends.	Tilt spring out of adjustment. Defective tilt spring.	Readjust spring length. Replace spring (see page 18).
Brakes do not lock wheels.	Tire wear.	Readjust casters
Brakes hard to apply.	Brakes over-adjusted.	Readjust casters

## NURSE COMMUNICATION SIDERAIL OPTION TROUBLESHOOTING GUIDE

Before attempting to diagnose an apparent problem, be sure the power cord is plugged into a properly grounded hospital grade wall receptacle and the bed has power. Be sure the nurse call cable has a good connection at both the wall and the bed. If both these things are done, proceed with diagnosis.

### CAUTION

Membrane switches are fragile. Never depress a membrane dome unless the switch is lying on a flat, firm surface. Doing otherwise will cause the switch to fail eventually. When applying a new membrane switch, lay it down evenly; do not roll it down. Once a membrane switch has been peeled back, it cannot be reused.

PROBLEM/SYMPTOM	POSSIBLE CAUSE	RECOMMENDED ACTION
Some or all of the pillow speaker functions aren't working properly.	Defective cable (from bed to wall).	Switch the cable with one that is known to work. If this solves the problem, replace the cable. If not, try a bed from another room that is known to be O.K. If the problem persists on the bed that is known to be O.K., the problem is in the wiring in the wall.
A control button on one side of the siderail doesn't work or the T.V. sounds different on one side.*	Defective control switch. Defective siderail P.C. board. Defective controller board. Defective siderail cable.	Replace switch.** Replace siderail PC board.** Switch the siderail cables at the controller board. If the problem switches sides, replace controller board. If the problem stays in the same siderail, replace cable.

\* For audio problems, check resistance across pins 4 and 35 on the 37 pin connector at the rear of the bed. The reading should be  $22.5 \pm 5$  ohms for 45 ohm systems or  $4 \pm 2$  ohms for 8 ohm systems. A reading double these values indicates no connection to the speaker in one of the siderails. If the sound is inadequate, turn the volume up to its highest level by holding the button for 30 seconds. Adjust the remote speaker output volume on the TV to its highest level. Turn the TV back down until the volume at the remote speakers just begins to be affected to reduce distortion caused by overdriving the speakers. Cover the speaker grills separately and compare the sound loss to be sure the sound is balanced between the two speakers.

\*\* For problems inside the siderails, peel back the outside membrane switch to expose the seven screws holding the plastic housing to the siderail assembly. Remove the screws and carefully disconnect the membrane switch from the siderail PC board.

\*\*\* For problems on the circuit board, remove the cover and examine the LED's next to the relays. If the LED comes on when the function button is pressed, a faint click should be audible. If no click is heard, replace the PC board (p/n 0314-17-00).

# Service Information

---

## HEAD MOTOR REPLACEMENT

HEAD MOTOR KIT #88-0317-22-00

### Required Tools:

7/16" Socket & Ratchet  
Loctite 242

Phillips Screwdriver  
9/16" Socket

3/8" Nut Driver  
9/16" Wrench

### Replacement Procedure:

1. Raise bed to full up position.

---

### CAUTION

Disconnect power plug from wall receptacle.

2. Remove headboard, foot mattress, foot extension, foot pans, I.V. pole and leg supports.
3. Set brake with casters turned as though the bed is being pushed backwards. Assure the head end of the bed is at least five feet away from the wall when it is upright.
4. With the assistance of another person, lift the foot end of the bed chassis and rotate the locked rear casters until the rubber mounts touch the floor.
5. Remove the two screws securing the service shelf to the litter and lower the shelf.
6. Remove the four screws securing the service shelf cover and remove the cover. Unplug the head motor lead from the controller.
7. Disconnect the head motor plug and unscrew the cord strain relief clamp.
8. Remove the four hex screws from the motor trunnion mounts.
9. Remove the two hex bolts, nuts and washers from the drive tube/pull bar.
10. Motor, drive tube and mounting hardware can now be removed as a unit.

### NOTE

The head motor is supplied to you with the drive tube retracted (ref. 1/8" from motor case). Do not allow the drive tube to rotate.

11. Remove the two white trunnion bearings from the defective motor and place them onto the new motor trunnion mounts. Place the motor assembly back into the litter frame and attach it with the four hex screws removed in step 8. Use Loctite 242 to secure the screws.
12. To hook up the head panel (Fowler) to the drive tube, plug the motor lead into the control box, replace the strain relief clamp, and plug the bed power cord into the wall receptacle. Hold the drive tube to prevent rotation and press the "HEAD DOWN" button on the hand pendant until the drive tube aligns with the head panel pull bar holes. Install the two hex screws and washers.
13. Be sure all screws, cables and electrical connections are secure.
14. Replace the service shelf cover and reattach the service shelf to the litter.
15. With the assistance of another person, tilt the bed back down to the floor.
16. Operate the head motor from full down position to full up to full down again. Make sure the motor stops electrically before the drive tube bottoms out on the mechanical stops. Check motor cable for proper routing and attachment to prevent interference.
17. Check electrical safety in conformance with specified hospital requirements (leakage current, ground continuity, etc.). Remount all items removed in step two and return the bed to service.

# Service Information

---

## BED MOTOR REPLACEMENT

BED MOTOR KIT #88-0317-23-00

### Required Tools:

7/16" Socket & Ratchet  
Phillips Screwdriver

1/4" Allen Wrench  
3/8" Nut Driver

Loctite 242  
Pry Bar

### Replacement Procedure:

1. Raise the bed to the full up position and lower the head panel.

---

### CAUTION

Disconnect power plug from wall receptacle.

The 2100 bed is equipped with gas springs to assist the lift mechanism. To prevent the seat section from expanding away from the chassis when the bed motor is removed, use the hand crank to raise the bed to full up before placing the bed in servicing position. If the motor is jammed or cannot be hand cranked, tie the seat section to the chassis with straps or strong rope.

2. Remove headboard, foot mattress, foot extension, foot pans, I.V. pole and leg supports.
3. Set brake with casters turned as though the bed is being pushed backwards. The casters at the head end of the bed must be five feet away from the wall.
4. With the assistance of another person, lift the foot end of the bed chassis and rotate the locked rear casters until the rubber mounts touch the floor.
5. Remove the two screws securing the service shelf to the litter and lower the shelf.
6. Remove the four screws securing the service shelf cover and remove the cover. Unplug the bed lift motor lead from the controller.
7. Disconnect the bed motor plug and unscrew the cord strain relief clamp.
8. Remove the two gas spring clips and disconnect the gas springs using the pry bar.
9. Remove the four hex screws from the motor mount.
10. Remove the two shoulder bolts from the drive crank.
11. Motor, drive tube, and mounting hardware can now be removed as a unit.
12. Install the new motor using the four hex screws removed in step 9. Use Loctite 242 to secure the screws.

### NOTE

The bed motor is supplied with the drive tube retracted (ref. 1/4" from motor case). Do not allow drive tube to rotate.

13. Pull the control lead into the controller and plug the bed power cord into the wall receptacle. Hold the bed drive tube to prevent rotation. Press the "BED DOWN" button on the hand pendant until the bed drive tube holes line up with the crank arm holes. Unplug the power cord.
14. Using Loctite 242, reinstall the two shoulder bolts through the crank into the drive tube.
15. Plug the motor lead into the control board and replace the strain relief clamp.
16. Hand crank the motor tube shaft so it is completely retracted. Compress the gas springs with a metal bar, reattach them and install the gas spring clips.
17. Be sure all screws, cables, and electrical connections are secure.
18. Reinstall the service shelf cover and reattach the service shelf to the litter.
19. With the assistance of another person, tilt the bed back down to the floor.
20. Plug the power cord into the wall receptacle. Operate the bed motor from full up position to full down to full up again. Be sure the motor stops electrically before the drive tube bottoms out on the mechanical stops. Check motor cable for proper routing and attachment to prevent interference.
21. Check electrical safety in conformance with specified hospital requirements (leakage current, ground continuity, etc.)
22. Remount all items removed in step two and return bed to service.

# Service Information

---

## FOOT MOTOR REPLACEMENT

FOOT MOTOR KIT #88-0317-24-00

### Required Tools:

7/16" Hex Socket & Ratchet  
Phillips Screwdriver

1/4" Allen Wrench  
Snap Ring Pliers

Loctite 242

### Replacement Procedure:

1. Raise bed to full up position.

---

### CAUTION

Disconnect power plug from wall receptacle.

2. Remove headboard, foot mattress, foot extension, foot pans, I.V. pole and leg supports.
3. Set brake with casters turned as though the bed is being pushed backwards. The casters at the head end of the bed must be five feet away from the wall.
4. With the assistance of another person, lift the foot end of the bed chassis and rotate the locked rear casters until the rubber mounts touch the floor.
5. Remove the two screws securing the service shelf to the litter and lower the shelf.
6. Remove the four screws securing the service shelf cover and remove the cover. Unplug the foot motor lead from the controller.
7. Disconnect the foot motor plug and unscrew the cord strain relief clamp.
8. Remove the four hex screws from the foot motor trunnion mounts.
9. Remove the pin from the foot drive crank.
10. Motor, drive tube and mounting hardware can now be removed as a unit.

### NOTE

The foot motor is supplied with the drive tube retracted (ref. 1/8" from motor case). Do not allow drive tube to rotate.

11. Remove the two white trunnion bearings from the defective motor and place them onto the new motor trunnion mounts. Place the motor assembly back into the litter frame and attach with the four hex screws removed in step 8. Use Loctite 242 to secure the screws.
12. Reinstall the pin through the drive tube and the foot crank. Reinstall snap ring.
13. Plug the motor lead into the control board and replace the strain relief clamp.
14. Be sure all screws, cables, and electrical connections are secure.
15. Reinstall the service shelf cover and reattach the service shelf to the litter.
16. With the assistance of another person, tilt the bed back down to the floor.
17. Plug the power cord into the wall receptacle. Operate the foot motor from full down position to full up to full down again. Be sure the motor stops electrically before the drive tube bottoms out on the mechanical stops. Check for proper cable routing and attachment to prevent interference.
18. Check electrical safety in conformance with specified hospital requirements (leakage current, ground continuity, etc.)
19. Remount all items removed in step two and return the bed to service.

# Service Information

---

## CONTROLLER REPLACEMENT

CONTROLLER KIT #88-0315-95-00

### Required Tools:

5/16" Nut Driver  
Pliers

#2 Phillips Screwdriver  
Blade Screwdriver

### Replacement Procedure:

1. Raise bed to the full up position.

---

### CAUTION

---

Disconnect power plug from wall receptacle.

2. Remove the two screws securing the service shelf to the litter and lower the service shelf.
3. Remove the four screws securing the service shelf cover and remove the cover.
4. Disconnect all electrical plugs from the controller board (limit switch, bed motor, head motor, compressor, manifold, foot motor, nurse communication).
5. Remove the two screws and lock washers holding the circuit board cover and move the cover out of the way (wires will still be attached).
6. Unscrew all mounting hardware and disconnect power tabs.
7. Mount new circuit board, attaching grounds and standoffs to original places, using loctite 242 where standoffs are used.
8. Reattach circuit board cover, using the screws and lock washers removed in step 5.
9. Reconnect all electrical plugs (removed in step 4) to controller board.
10. Be sure all screws, cables and electrical connections are secure.
11. Reinstall the service shelf cover and reattach the service shelf to the litter.
12. Plug the power cord into the wall receptacle. Run through all functions on the hand pendant at least three times to ensure proper operation. Check for proper cable routing and attachment to prevent interference.
13. Check electrical safety in conformance with specified hospital requirements ( leakage current, ground continuity, etc.).
14. Return bed to service.

# Service Information

---

## HAND PENDANT REPLACEMENT

HAND PENDANT KIT #88-0317-25-00

### Required Tools:

#1 & #2 Phillips Screwdrivers

3/8" Nut Driver

### Replacement Procedure:

1. Raise bed to full up position.
2. Remove cord strain relief clamps.
3. Remove the two screws securing the service shelf to the litter and lower the service shelf.
4. Remove the four screws securing the service shelf cover and remove the cover.
5. Unplug pendant cable from PCB cover and remove.
6. Route replacement pendant cable to PCB box and plug into controller.
7. Attach strain relief clamps.
8. Reinstall the service shelf cover and reattach the service shelf to the litter.
9. Be sure all screws and connections are secure.
10. Run through all the functions on the hand pendant at least three times to ensure proper operation.
11. Return bed to service.

## MEMBRANE SWITCH REPLACEMENT

MEMBRANE SWITCH KIT #88-0316-04-00

### Required Tools:

5/64" Allen Wrench

### Replacement Procedure:

---

#### CAUTION

---

Disconnect power plug from wall receptacle.

1. Remove the four screws from the back of the hand pendant.
2. Unplug the membrane switch assembly at the ribbon cable connector.
3. Plug the replacement membrane switch ribbon into the connector.
4. Place the membrane switch into the pendant housing, being sure to properly locate the strain relief bar. Insert and tighten the four socket screws.
5. Run through all the functions of the membrane switch at least three times to ensure proper operation.
6. Return bed to service.

# Service Information

---

## COMPRESSOR REPLACEMENT

COMPRESSOR KIT #88-0315-92-00

### Required Tools:

11/32" Nut Driver  
Side (Wire) Cutter

Blade Screwdriver  
Phillips Screwdriver

### Replacement Procedure:

1. Raise the bed to the full up position.

---

### CAUTION

---

Disconnect power plug from wall receptacle.

2. Remove the two screws securing the service shelf to the litter and lower the service shelf.
3. Remove the four screws securing the service shelf cover and remove the cover.
4. Unplug the compressor from the circuit board.
5. Disconnect the air line from the compressor (cut if needed).
6. Remove the three mounting nuts and washers and the defective compressor.
7. Install the replacement compressor and shock mounts on the service shelf with the three star washers and nuts.
8. Plug the compressor into the circuit board and reattach the air line to the compressor.
9. Be sure all screws, cables and electrical connections are secure.
10. Reinstall the service shelf cover and reattach the service shelf to the litter.
11. Plug the power cord into the wall receptacle. Run through all functions on the hand pendant at least three times to ensure proper operation. Check for proper cable routing and attachment to prevent interference.
12. Check electrical safety in conformance with specified hospital requirements (leakage current, ground continuity, etc.)
13. Return bed to service.

# Service Information

---

## MANIFOLD REPLACEMENT

MANIFOLD KIT #88-0315-93-00

### Required Tools:

Phillips Screwdriver  
Slide (Wire) Cutter

3/8" Nut Driver

### Replacement Procedure:

1. Raise bed to the full up position.

---

### CAUTION

Disconnect power plug from wall receptacle.

2. Remove the two screws securing the service shelf to the litter and lower the service shelf.
3. Remove the four screws securing the service shelf cover and remove the cover.
4. Unplug the manifold connectors (3) from the control board.
5. Remove the two manifold mounting screws, washers and cable clamps.
6. Remove or cut the air lines to the seat-left, seat-right and lumbar at the manifold fittings and cut air lines at compressor.
7. Connect the air lines to the replacement manifold fittings.
8. Reconnect the three electrical plugs to the control board and arrange the wires neatly, as before.
9. Mount the manifold with the two star lock washers and screws.
10. Be sure all screws, cables and electrical connections are secure.
11. Reinstall the service shelf cover and reattach the service shelf to the litter.
12. Plug the power cord into the wall receptacle. Run through all functions on the hand pendant at least three times to ensure proper operation. Check for proper cable routing and attachment to prevent interference.
13. Check electrical safety in conformance with specified hospital requirements (leakage current, ground continuity, etc.)
14. Return bed to service.

# Service Information

## LIMIT SWITCH REPLACEMENT

LIMIT SWITCH KIT #88-0317-26-00

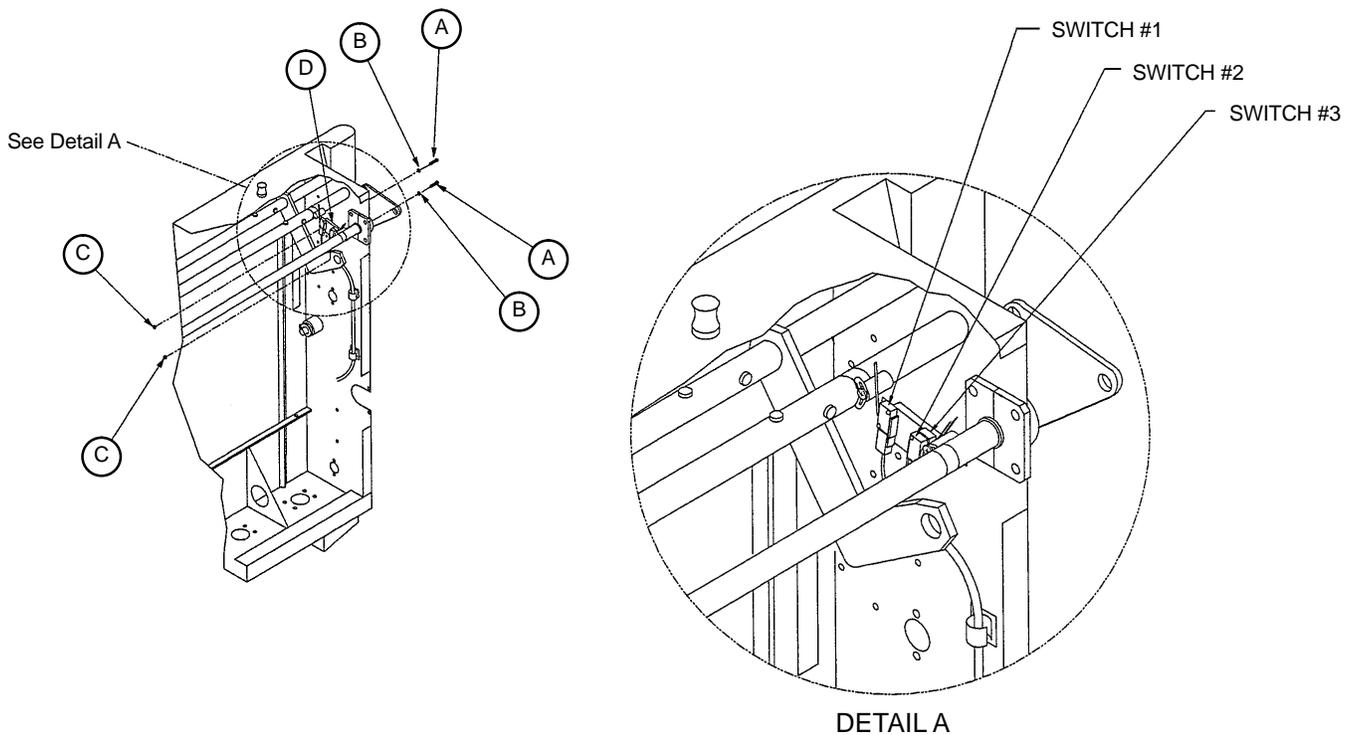
### Required Tools:

#1 Phillips Screwdriver

Small Blade Screwdriver

1/4" Nut Driver

5/16" Nut Driver



### Replacement Procedure:

1. Raise bed to the full up position.

### CAUTION

Disconnect power plug from wall receptacle.

2. Remove headboard, foot mattress, foot extension, foot pans, I.V. pole and leg supports.
3. Set brake with casters turned as though the bed is being pushed backwards. The casters at the head end of the bed must be five feet away from the wall.
4. With the assistance of another person, lift the foot end of the bed chassis and rotate the locking rear casters until the rubber mounts touch the floor.
5. Remove the two Phillips screws (A), lock washers (B) and nuts (C) and pull the switch assembly (D) away from the litter wall.
6. Remove the electrical connectors from the switches.
7. Remove the two screws, washers, spacers and nuts to release the defective limit switch(es) from the bracket (see page 52 for parts detail).
8. Install the replacement switch(es) using the fasteners removed in step 7.

# Service Information

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## LIMIT SWITCH REPLACEMENT (CONTINUED)

9. Reconnect the electrical connectors to the switches. Refer to the drawing on page 15 when connecting the plugs to the switch terminals.
10. Be sure all screws, cables and electrical connections are secure.
11. With the assistance of another person, tilt the bed back down to the floor.
12. Plug the power cord into the wall receptacle. Run through all the functions on the hand pendant at least three times to ensure proper operation.
13. Follow the instructions provided in the limit switch kit to correctly adjust the foot end travel for automatic foot up on bed down.
14. Check electrical safety in conformance with specified hospital requirements (leakage current, ground continuity, etc.)
15. Remount all items removed in step two and return bed to service.

# Service Information

---

## COUNTERBALANCE SPRING REPLACEMENT

COUNTERBALANCE SPRING KIT #88-0317-27-00

### Required Tools:

Pry Bar

### Replacement Procedure:

1. Raise bed to full up position. Hand crank the bed up past the electrical stop of the motor.

---

### CAUTION

Disconnect power plug from wall receptacle.

2. Remove headboard, foot mattress, foot extension, foot pans, I.V. pole and leg supports.
3. Set brake with casters turned as though the bed is being pushed backwards. The casters at the head end of the bed must be five feet away from the wall.
4. With the assistance of another person, lift the foot end of the bed chassis and rotate the rear casters until the upper frame-headboard mounts touch the floor.
5. Remove the two screws securing the service shelf to the litter and lower the service shelf.
6. Remove the retaining clip wire from each of the two ball joint sockets of the defective spring.
7. Use the pry bar to pry the socket off the ball joints and remove the faulty spring. To verify spring is defective, hold large end firmly in your hands, place the small end on the floor, and push down. If the spring collapses, the spring is defective. If it is not defective, remove the other spring and test.
8. Install the replacement spring by snapping the sockets on the ball joints, using a pry bar to compress the spring and installing the retaining clip wire through the ball joint socket.

### NOTE

Be sure to install the spring in the same direction it was prior to removal. (The gas spring cylinder should be pointed away from the motor).

9. Be sure all screws, cables and electrical connections are secure.
10. Reattach the service shelf to the litter.
11. With the assistance of another person, tilt the bed back down to the floor.
12. Plug the power cord into the wall receptacle. Run through all functions on the hand pendant at least three times to ensure proper operation. Check for proper cable routing and attachment to prevent interference.
13. Remount all items removed in step two and return bed to service.

# Service Information

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## TILT/TRENDELENBERG SPRING REPLACEMENT AND ADJUSTMENT

TILT/TRENDELENBERG SPRING KIT #88-0315-94-00

### Required Tools:

Snap Ring Pliers (External)	Blade Screwdriver
17mm Open End Wrench	1/4" Drift Punch
5mm Allen Wrench	Loctite 242

### Replacement Procedure:

1. Raise bed to the full up position and tilt head down.

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### CAUTION

Disconnect power plug from wall receptacle.

2. Remove headboard, foot mattress, foot extension, foot pans, I.V. pole and leg supports.
3. Set brake with casters turned as though the bed is being pushed backwards. The casters at the head end of the bed must be five feet away from the wall.
4. With the assistance of another person, lift the foot end of the bed chassis and rotate the locked rear casters until the upper frame-headboard mounts touch the floor.

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### CAUTION

Replace gas springs one side at a time.

5. Remove shoulder bolt holding gas spring to tilt arm.
6. Remove pin connecting rear lift bar and tilt arm. Disconnect rear lift bar from drive crank.
7. Fully compress gas spring and remove from tilt arm. (Not necessary on over table frame. Swing arm away from spring).
8. Remove pin connecting front lift bar and tilt arm.
9. Loosen jam nut on defective gas spring. Unscrew gas spring from spring bracket and remove.
10. Turn replacement gas spring into spring bracket 7 1/2 turns. This will ensure both gas springs engage at the same time when the Trendelenberg pedal is depressed.
11. Replace and tighten jam nut on gas spring.
12. Apply Loctite 242 to threads of shoulder bolt and attach gas spring to tilt arm.
13. Activate gas springs to align tilt arm.
14. Reconnect front lift bar to tilt arm.
15. Reconnect rear lift bar to drive crank and tilt arm.
16. Repeat steps 5 through 15 for other spring, if necessary.
17. With the assistance of another person, tilt the bed back down to the floor.
18. Remount all items removed in step 2 and return the bed to service.

# Cleaning

The 2100 is designed and constructed to minimize and simplify your housekeeping requirements. Large, flat surfaces with a minimum of cracks and crevices make the bed easy to clean using standard hospital practices and procedures. All parts of the bed should be washed using a mild, detergent-type, cleaning solution. General-duty sanitizers and disinfectants may be used on all bed components, but avoid excessive moisture or abrasive cleaners on hardwood areas. Also, avoid leaving excessive moisture between the mattress and foot panel by drying surface thoroughly before re-making the bed.

## GENERAL CLEANING

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

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

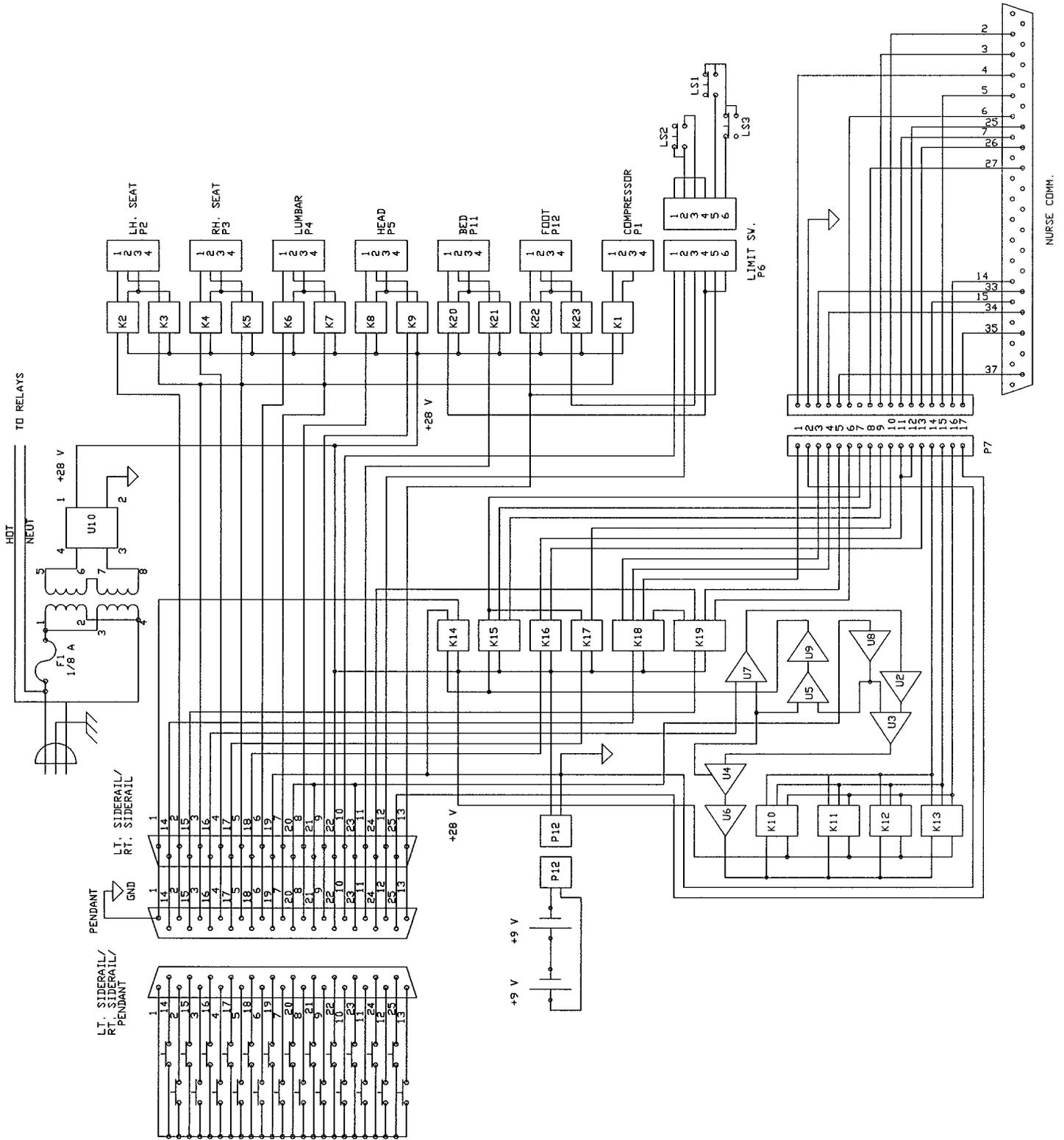
## REMOVAL OF IODINE COMPOUNDS

### NOTE

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

1. Use a solution of 1–2 tablespoons Sodium Thiosulfate in a pint of warm water to clean the stained area. Clean as soon as possible after staining occurs. If stains are not immediately removed, allow solution to soak or stand on the surface.
2. Rinse surfaces which have been exposed to the solution in clear water before returning bed to service.

# 2100 Electrical Schematic



# Field Replacement Parts

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<b><u>PART NAME</u></b>	<b><u>PART NUMBER</u></b>
Fluid Basin, 10-liter .....	88-1228-01-00
Basin Liners, Pack of 250 .....	88-1332-00-00
Compressor Kit .....	88-0315-92-00
Controller Kit .....	88-0315-95-00
Counterbalance Spring Kit .....	88-0317-27-00
Hand Pendant Kit .....	88-0317-25-00
I.V. Pole .....	88-0589-67-00
Limit Switch Kit .....	88-0317-26-00
Manifold Kit .....	88-0315-93-00
Membrane Switch Kit .....	88-0316-04-00
Bed Motor Kit .....	88-0317-23-00
Foot Motor Kit .....	88-0317-24-00
Head Motor Kit .....	88-0317-22-00
Tilt/Trendelenburg Spring Kit .....	88-0315-94-00

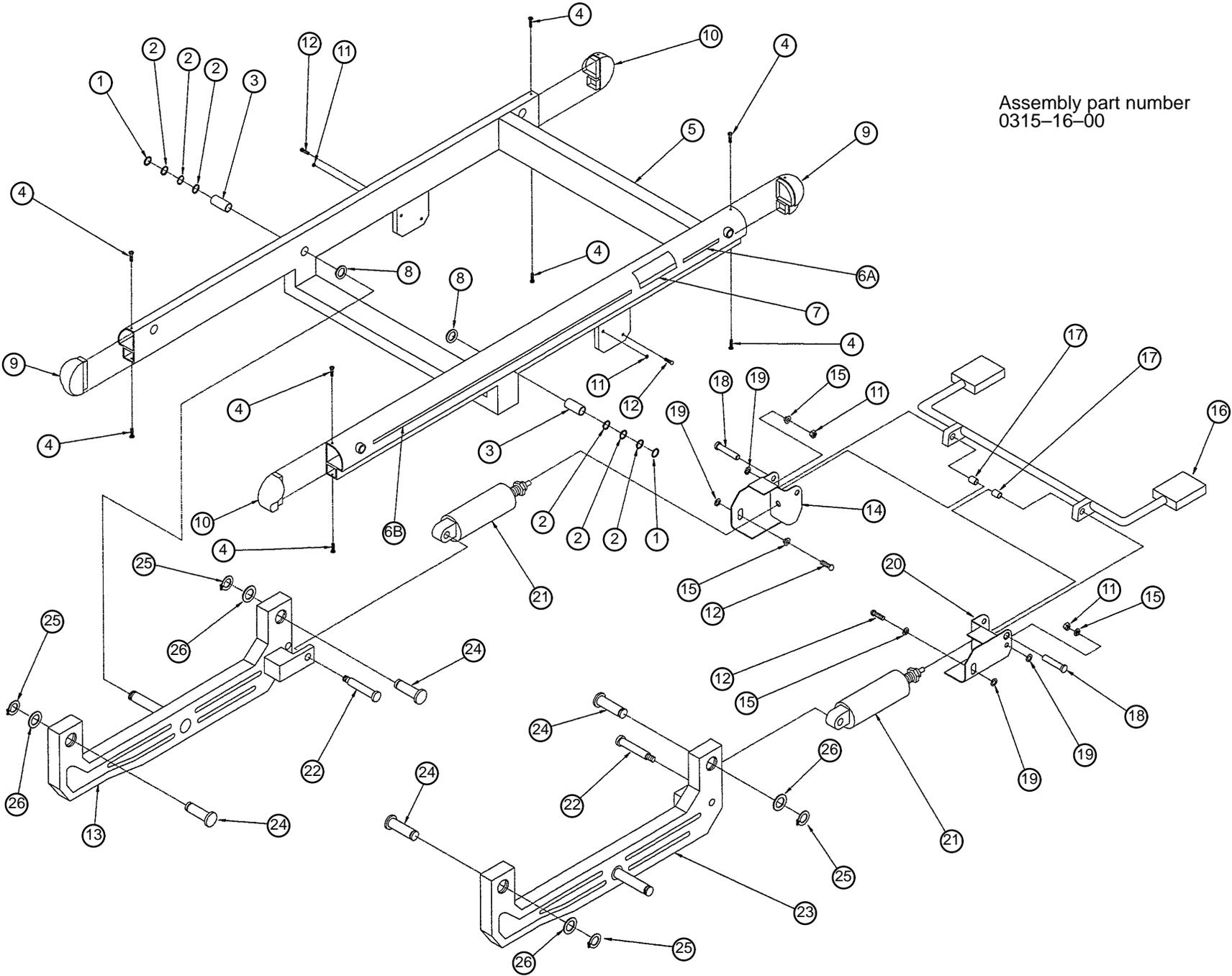
## **MATTRESSES**

Foot Mattress with Push Bar Kit .....	88-0317-28-00
Foot Mattress with Push Bar Foot Lock Kit .....	88-0317-29-00
Head/Seat Mattress Kit .....	88-0317-30-00

## **TOUCH-UP PAINT**

Gray Tone (spray) p/n 88-0064-10-00
Gray Tone (touch-up) p/n 88-0064-11-00
Opal White (spray) p/n 88-0064-12-00
Opal White (touch-up) p/n 88-0064-13-00

Assembly part number  
0315-16-00



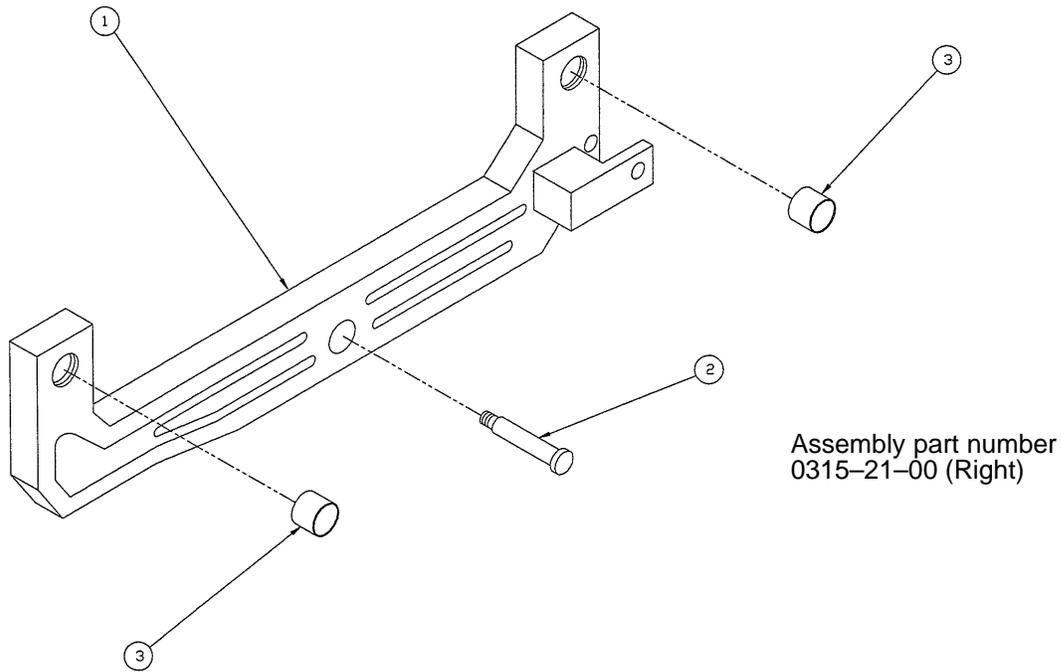
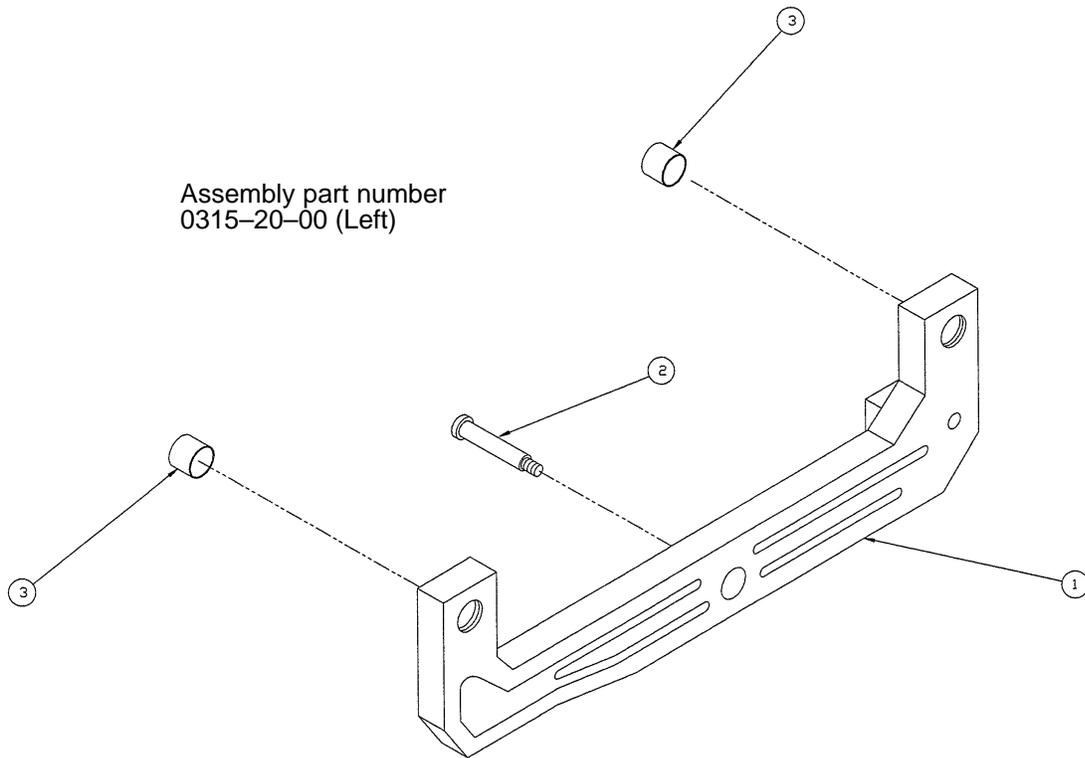
**Chassis Assembly**

# Chassis Assembly

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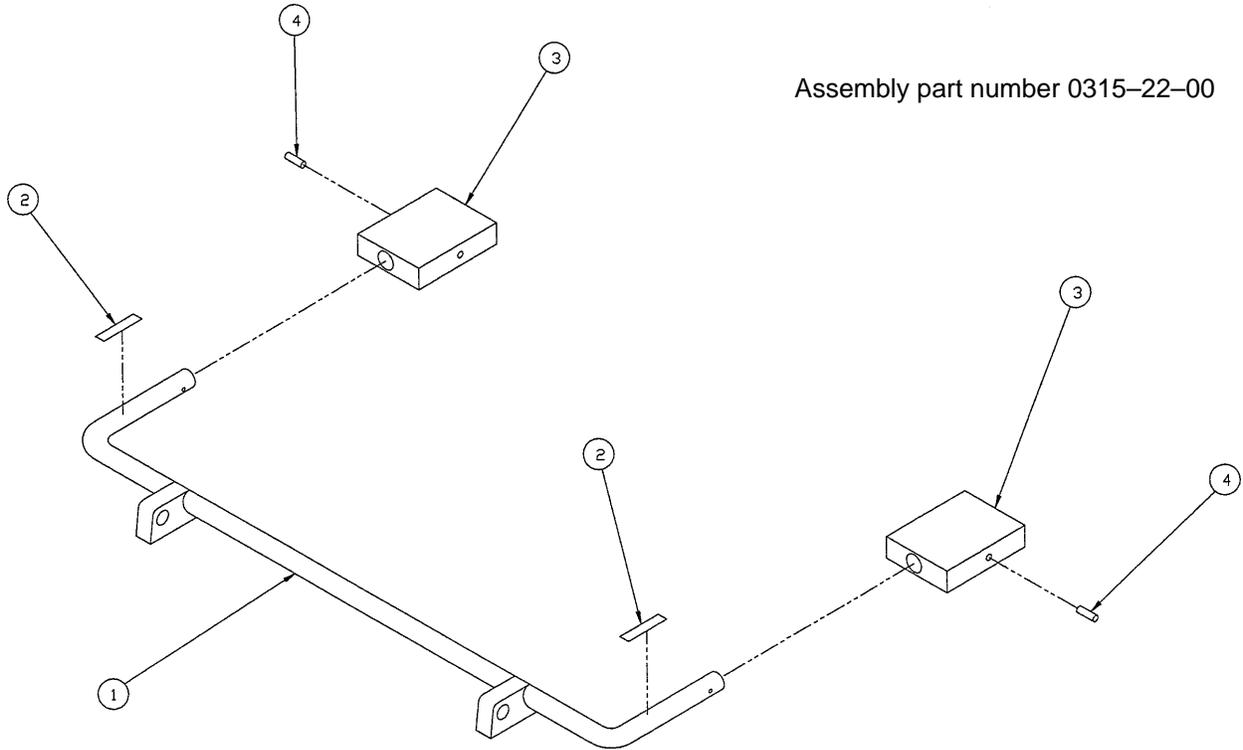
<b>Item</b>	<b>Part No.</b>	<b>Part Name</b>	<b>Qty.</b>
1	0610-24-00	Retaining Ring	2
2	0310-50-00	Washer	6
3	0310-52-00	Bushing	2
4	1113-11-00	Screw	8
5	0314-38-00	Chassis Weldment	1
6A	0305-03-00	6" Stripe Label	2
6B	0305-03-00	39" Stripe Label	2
7	0310-01-00	Adel 2100 Label	2
8	0310-49-00	Steel Washer	2
9	0314-62-00	Chassis Cap, Right	2
10	0314-63-00	Chassis Cap, Left	2
11	0024-02-00	Nut	4
12	0306-73-00	But. Hd. Screw	4
13	(page 24)	Tilt Arm Assembly, Right	1
14	0314-34-00	Spring Bracket, Right	1
15	3978-75-00	Washer	4
16	(page 25)	Tilt Lever Assembly	1
17	0310-58-00	Spacer	2
18	0310-45-00	Pedal Pin	2
19	0310-48-00	Nylon Washer	4
20	0314-33-00	Spring Bracket, Left	1
21	0313-65-00	Gas Spring	2
22	0310-53-00	Shoulder Screw	2
23	(page 24)	Tilt Arm Assembly, Left	1
24	0301-52-00	Pin	4
25	0315-90-00	Snap Ring	4
26	0301-46-00	Flat Washer	4

# Tilt Arm Assembly, Left & Right



Item	Part No.	Part Name	Qty.
1	0314-35-00	Machined Tilt Arm, Left	1
	0314-36-00	Machined Tilt Arm, Right	1
2	0310-44-00	Tilt Arm Pin	1
3	0301-36-00	Bronze Bushing	2

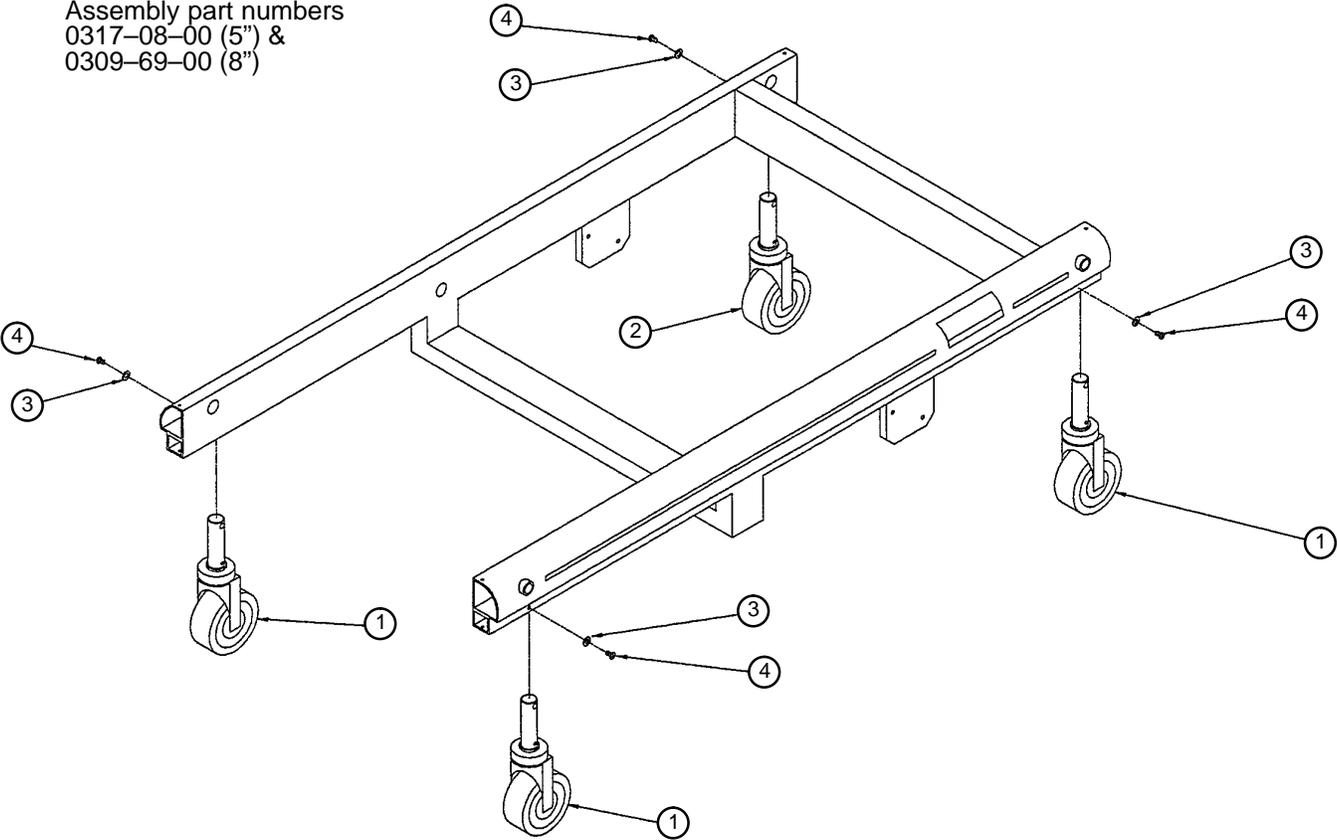
# Tilt Lever Assembly



Item	Part No.	Part Name	Qty.
1	0314-37-00	Tilt Lever	1
2	0310-80-00	Tilt Label	2
3	0602-49-00	Pedal	2
4	0610-22-00	Spring Pin	2

# Caster Options

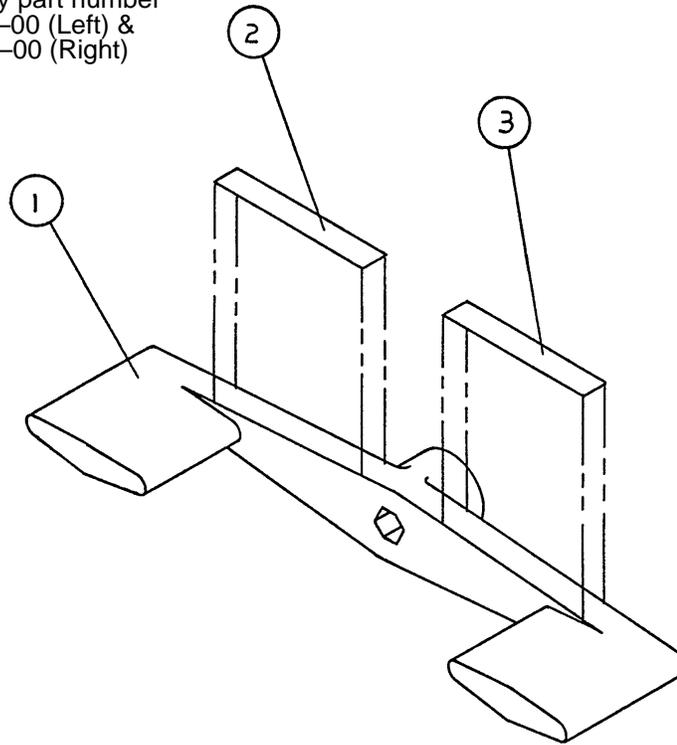
Assembly part numbers  
 0317-08-00 (5") &  
 0309-69-00 (8")



Item	Part No.	Part Name	Qty.
1	0301-22-00	Brake Caster, 5"	3
	3979-05-00	Brake Caster, 8"	3
2	0301-23-00	Brake/Steer Caster, 5"	1
	3979-06-00	Brake/Steer Caster, 8"	1
3	0177-00-00	Int. Tooth Lock Washer	4
4	0022-18-00	Phillips Pan Hd. Screw	4

# Brake/Steer Pedal Ass'y, Left & Right

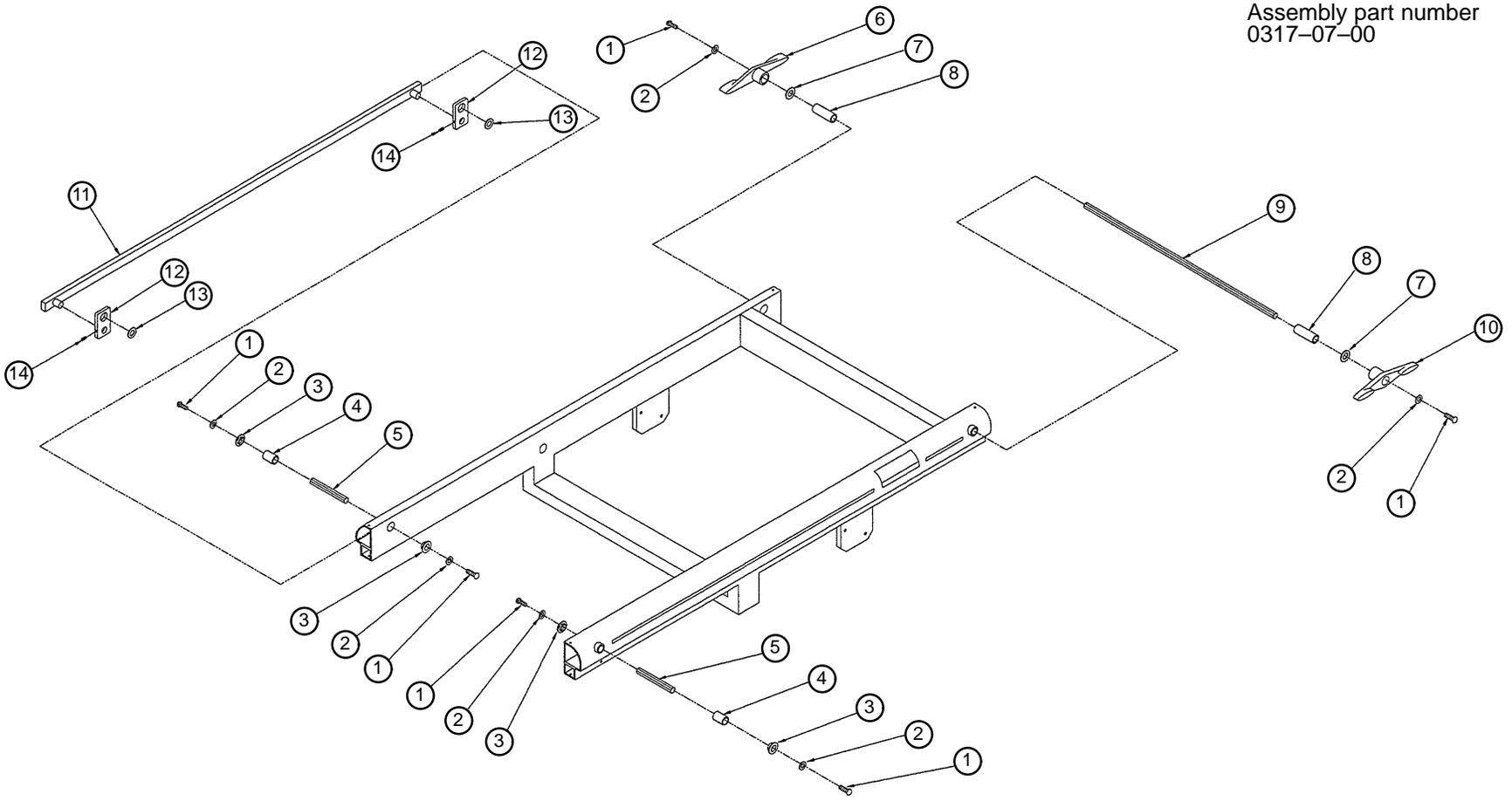
Assembly part number  
 0597-11-00 (Left) &  
 0597-12-00 (Right)



Item	Part No.	Part Name	Qty.	Item	Part No.	Part Name	Qty.
1	0007-01-00	Brake Lock Lever, Rt.	1	1	0007-00-00	Brake Lock Lever, Lt.	1
2	1076-09-00	"Brake" Label	1	2	1076-10-00	"Steer" Label	1
3	1076-10-00	"Steer" Label	1	3	1076-09-00	"Brake" Label	1

# Standard Rear Brake Option Assembly

Assembly part number  
0317-07-00



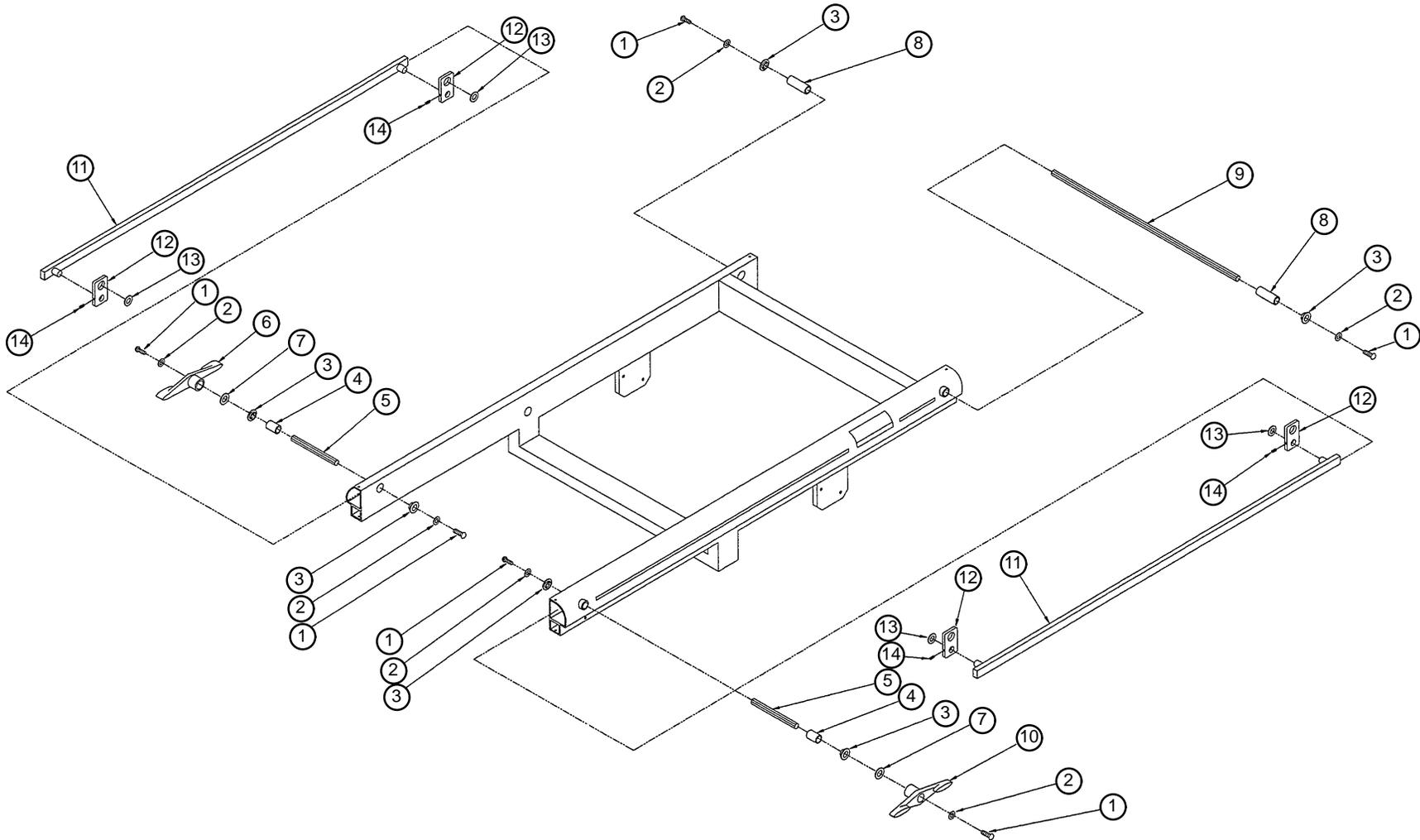
# Standard Rear Brake Option Assembly

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<b>Item</b>	<b>Part No.</b>	<b>Part Name</b>	<b>Qty.</b>
1	0022-24-00	Phillips Truss Hd, Screw	6
2	0601-24-00	Flat Washer	6
3	0601-16-00	Nylon Flange Bushing	4
4	3978-96-00	Front Bushing	1
5	3978-98-00	Front Shaft	2
6	(page 27)	Pedal Assembly, Left	1
7	0025-10-00	Flat Washer	2
8	0316-29-00	Rear Bushing	2
9	3978-99-00	Rear Shaft	1
10	(page 27)	Pedal Assembly, Right	1
11	0304-88-00	Tie Bar	1
12	0304-83-00	Link	2
13	0602-43-00	Flat Washer	2
14	3978-71-00	Set Screw	2

Assembly part number  
0317-03-00

**Front Brake Option Assembly**



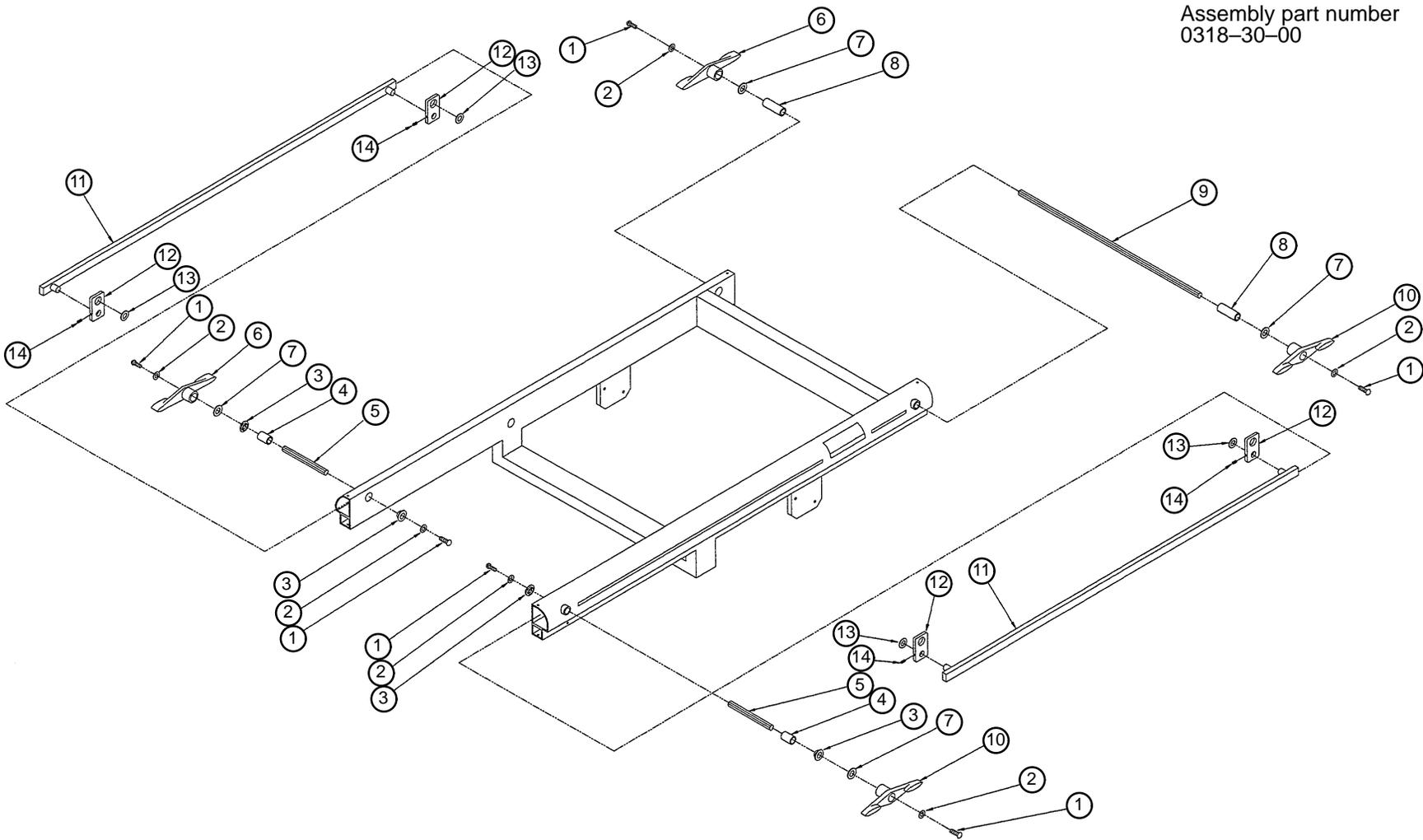
# Front Brake Option Assembly

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<b>Item</b>	<b>Part No.</b>	<b>Part Name</b>	<b>Qty.</b>
1	0022-24-00	Phillips Truss Hd, Screw	6
2	0601-24-00	Flat Washer	6
3	0601-16-00	Nylon Flange Bushing	6
4	3978-96-00	Front Bushing	2
5	0318-31-00	Front Shaft	2
6	(page 27)	Pedal Assembly, Left	1
7	0025-10-00	Flat Washer	2
8	0316-29-00	Rear Bushing	2
9	0304-87-00	Rear Shaft	1
10	(page 27)	Pedal Assembly, Right	1
11	0304-88-00	Tie Bar	2
12	0304-83-00	Link	4
13	0602-43-00	Flat Washer	4
14	3978-71-00	Set Screw	4

# Front and Rear Brake Option Assembly

Assembly part number  
0318-30-00

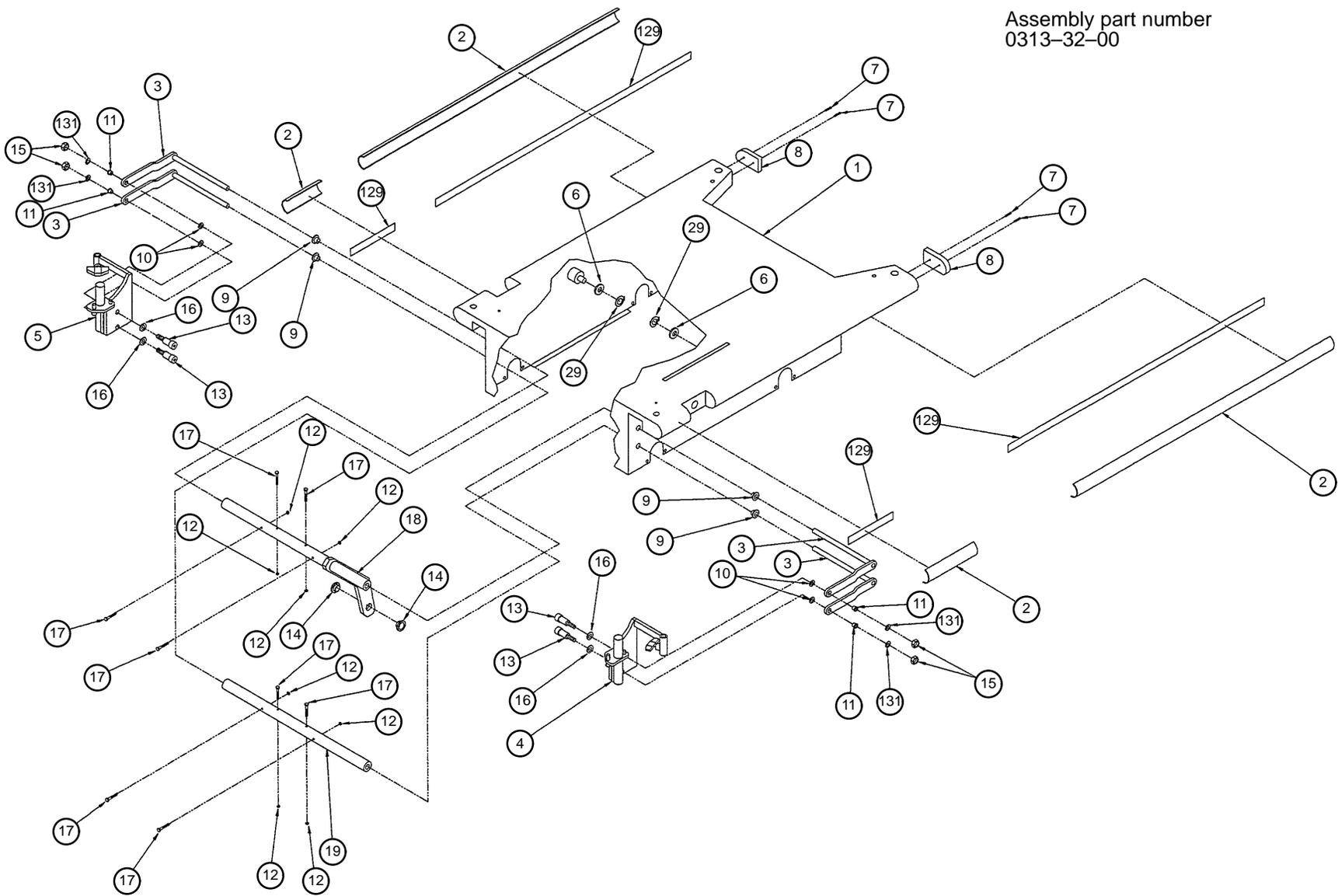


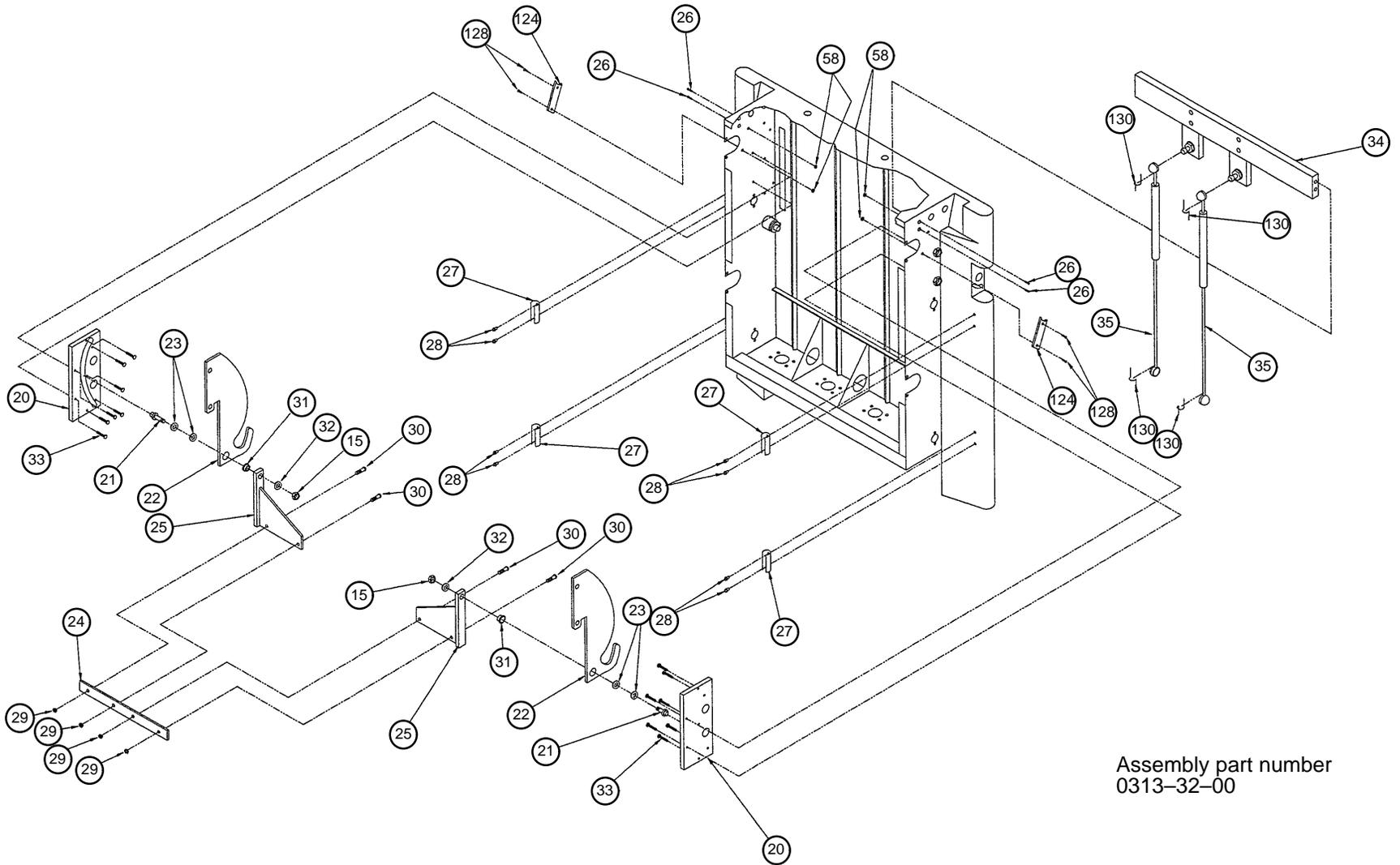
# Front and Rear Brake Option Assembly

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<b>Item</b>	<b>Part No.</b>	<b>Part Name</b>	<b>Qty.</b>
1	0022-24-00	Phillips Truss Hd, Screw	6
2	0601-24-00	Flat Washer	6
3	0601-16-00	Nylon Flange Bushing	4
4	3978-96-00	Front Bushing	2
5	0318-31-00	Front Shaft	2
6	(page 27)	Pedal Assembly, Left	2
7	0025-10-00	Flat Washer	4
8	0316-29-00	Rear Bushing	2
9	3978-99-00	Rear Shaft	1
10	(page 27)	Pedal Assembly, Right	2
11	0304-88-00	Tie Bar	2
12	0304-83-00	Link	4
13	0602-43-00	Flat Washer	4
14	3978-71-00	Set Screw	4

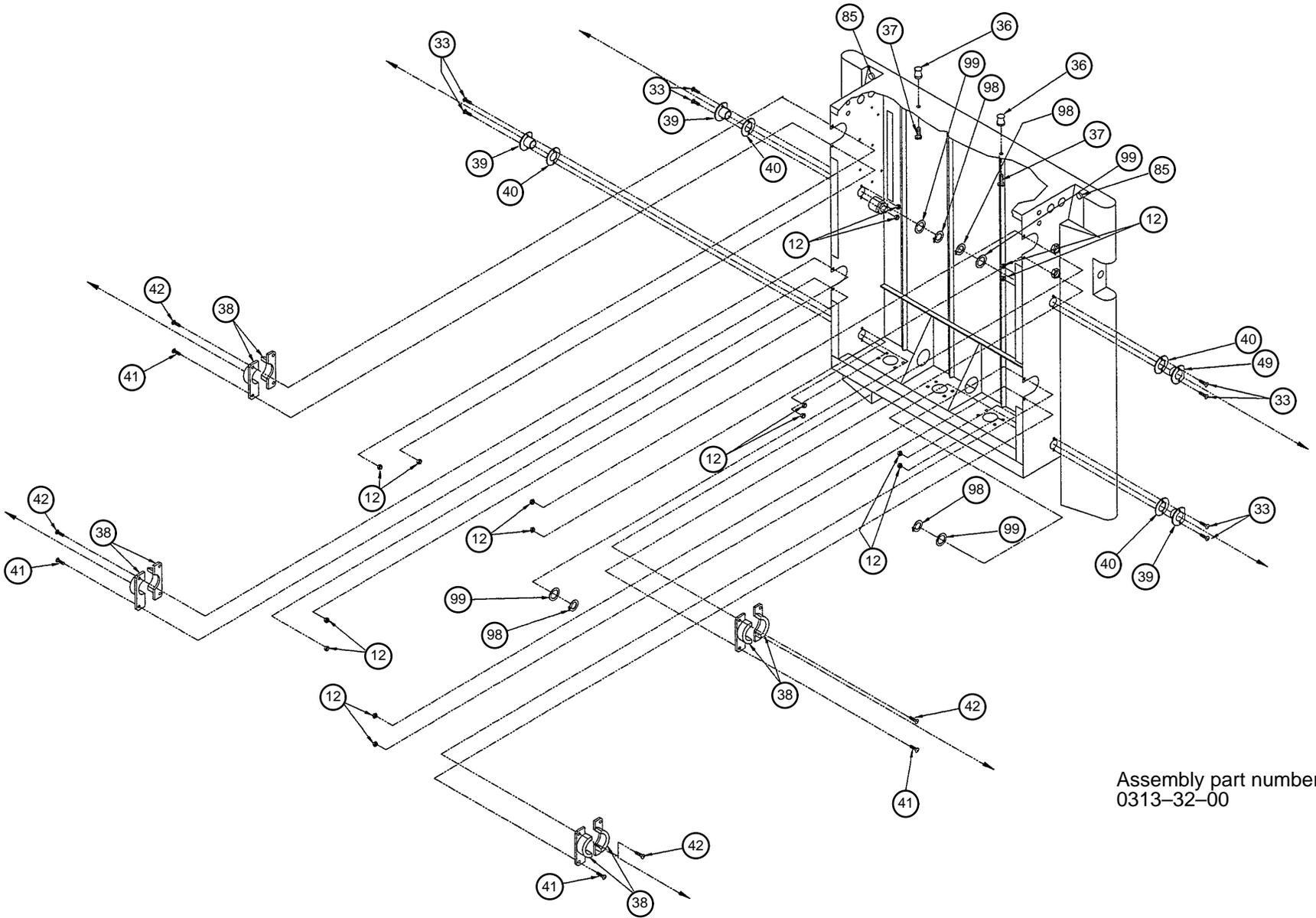
Assembly part number  
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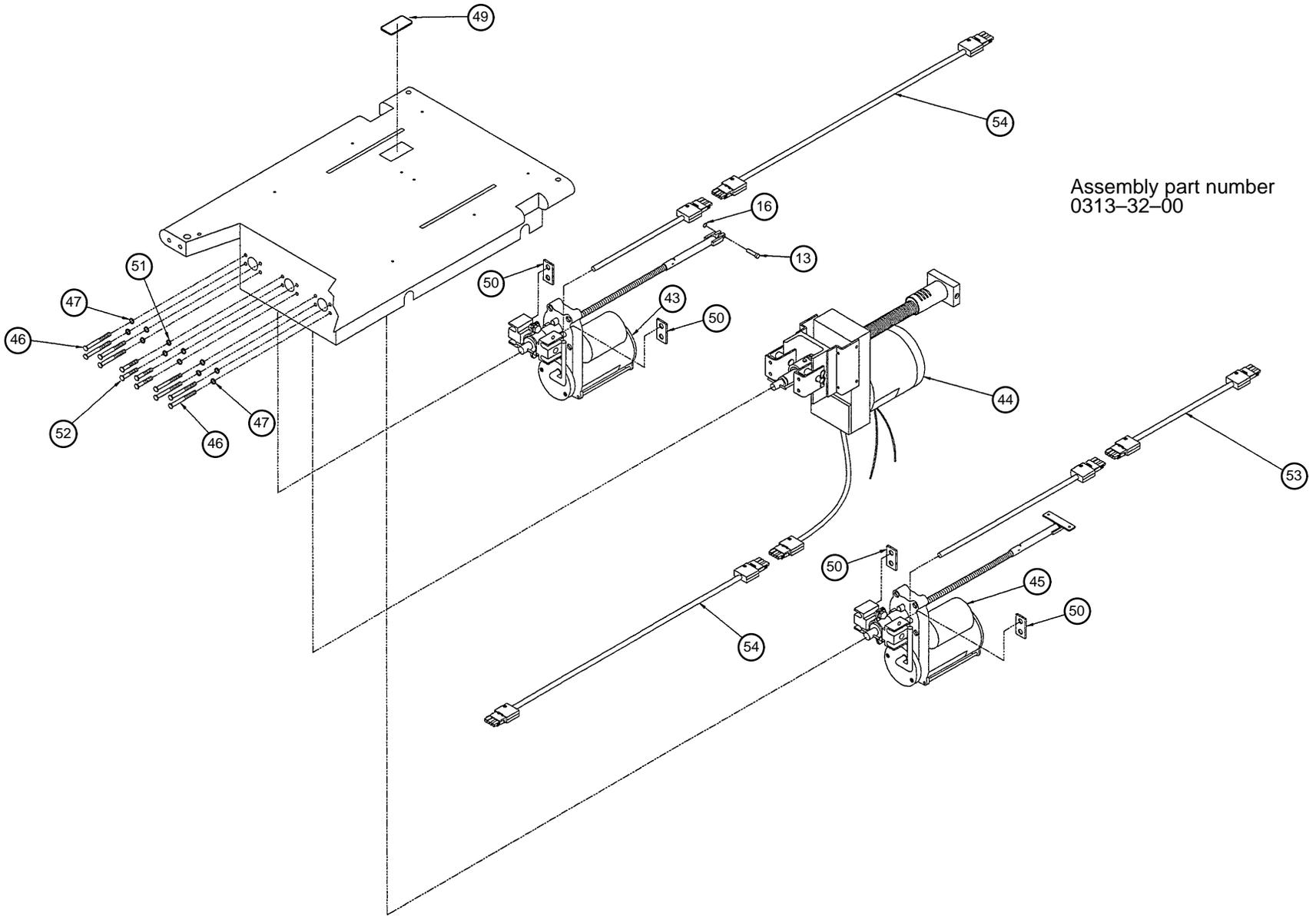


Assembly part number  
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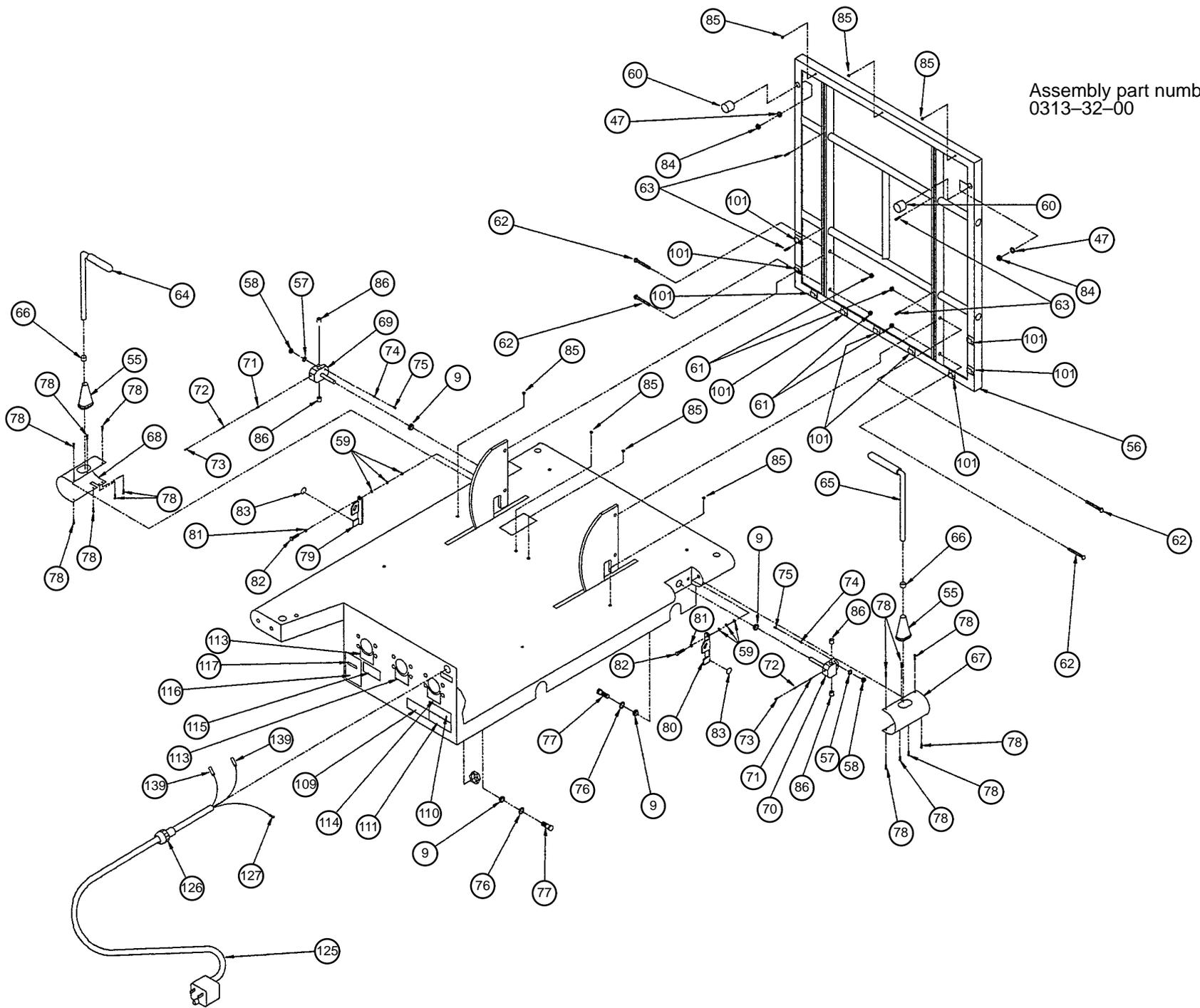
# Litter Assembly



Assembly part number  
0313-32-00



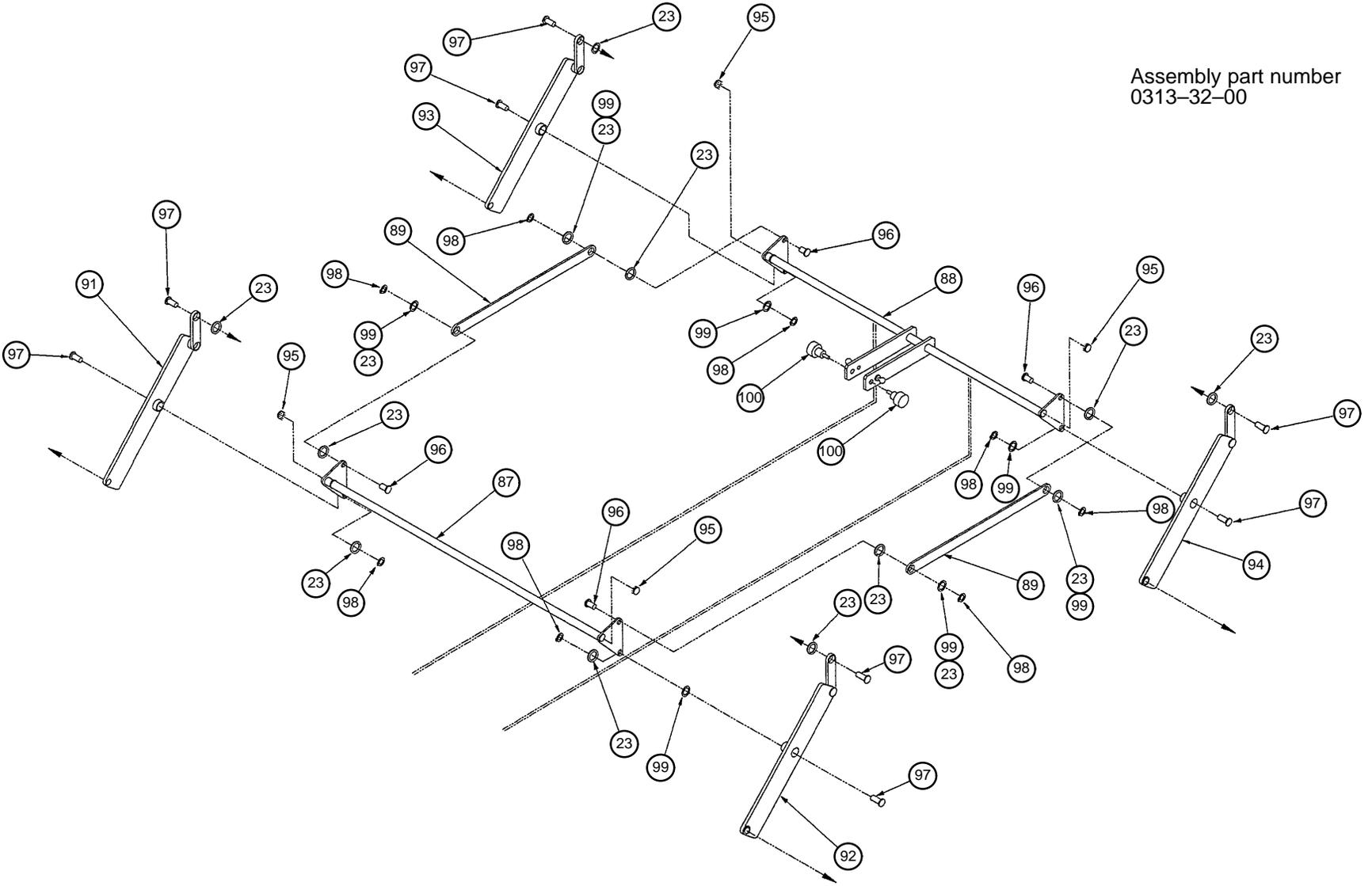
**Litter Assembly**



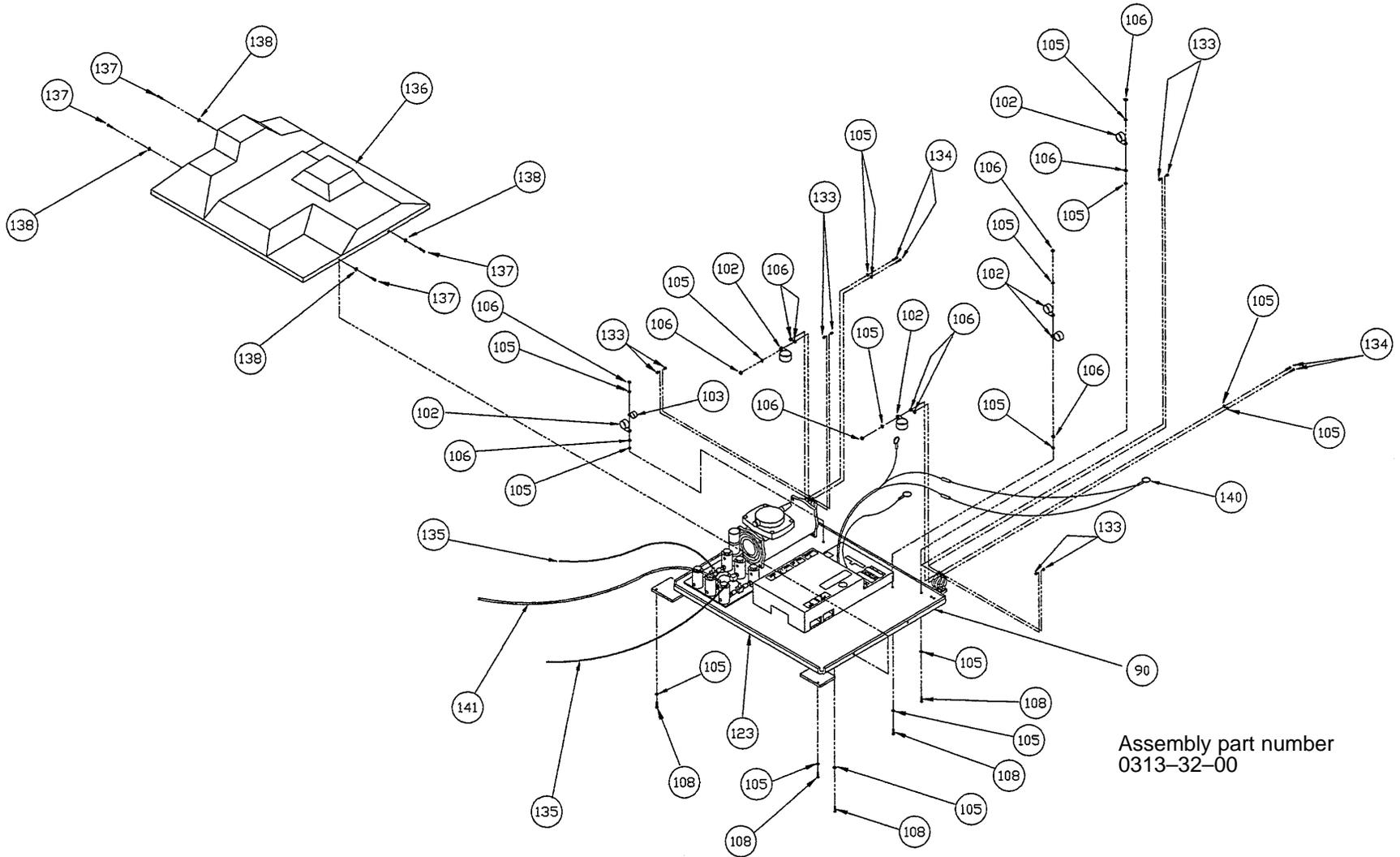
Litter Assembly

# Litter Assembly

Assembly part number  
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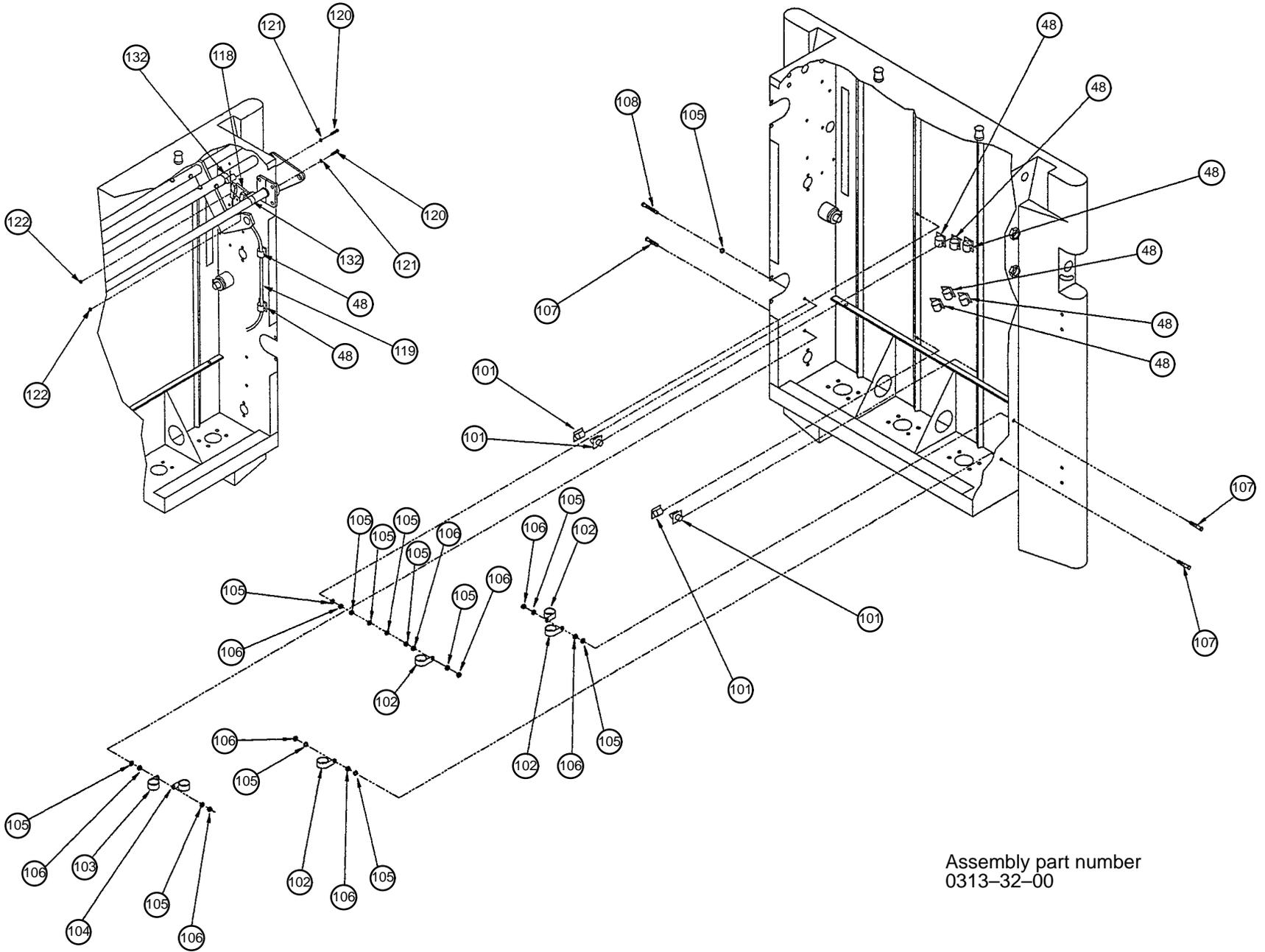


# Litter Assembly



Assembly part number  
0313-32-00

# Litter Assembly



Assembly part number  
0313-32-00

# Litter Assembly

Item	Part No.	Part Name	Qty.	Item	Part No.	Part Name	Qty.
1	0313-00-00	Litter Weldment	1	62	0524-15-00	Bolt	4
2	0313-58-00	Side Bumper	2	63	0313-77-00	Socket Set Screw	4
3	0313-17-00	Foot Link Weldment	4	64	(page 48)	Hand Grip Ass'y, Left	1
4	(page 44)	Foot Pan Mount, Right	1	65	(page 48)	Hand Grip Ass'y, Right	1
5	(page 44)	Foot Pan Mount, Left	1	66	0316-37-00	Glide Ring	2
6	0607-14-00	Bearing	2	67	0314-45-00	Hand Grip Cover, Right	1
7	0315-40-00	Phillips Flat Hd. Screw	4	68	0314-44-00	Hand Grip Cover, Left	1
8	0313-66-00	Bumper	2	69	0314-21-00	Hand Grip Block, Left	1
9	0313-74-00	Foot Lift Bushing	8	70	0314-22-00	Hand Grip Block, Right	1
10	0315-68-00	Washer	4	71	0314-24-00	Hand Grip Detent Pin	2
11	0315-70-00	Foot Link Bushing	4	72	0314-70-00	Detent Spring	2
12	0024-01-00	Nylock Nut	24	73	0315-71-00	Set Screw	2
13	0315-69-00	Shoulder Bolt	5	74	1029-06-00	Foot Latch Spring	2
14	0313-71-00	Bushing	2	75	0308-24-00	Shot Pin	2
15	0023-21-00	Nylock Hex Nut	6	76	0310-08-00	Washer	2
16	0316-38-00	Washer	4	77	0023-15-00	Bolt	2
17	0313-80-00	Bolt	8	78	0315-75-00	Screw	14
18	0313-18-00	Foot Lift Crank Weldmt.	1	79	0314-19-00	Latch, Left	1
19	0313-19-00	Foot Lift Idler Sleeve	1	80	0314-20-00	Latch, Right	1
20	0313-13-00	Cam Plate	2	81	0314-74-00	Latch Ass'y Bushing	2
21	0313-21-00	Cam Plate Follower Pin	2	82	0314-75-00	Allen Hd. Screw	2
22	0313-04-00	Cam Follower	2	83	0315-03-00	Latch Handle Pull Label	2
23	0602-54-00	Washer	18	84	0024-17-00	Nut	2
24	0313-69-00	Connector Bar	1	85	0313-79-00	Snap	9
25	0313-12-00	Fowler Bar	2	86	0304-42-00	Bushing	4
26	0306-73-00	Cap Screw	4	87	0313-03-00	Idler Crank	1
27	0573-02-00	I.V. Pole Clip	4	88	(page 49)	Crank Drive Assembly	1
28	0173-07-00	Pop Rivet	8	89	0313-85-00	Link Lift Bar	2
29	0301-43-00	Snap Ring	2	91	(page 50)	Front Lift Bar, Right	1
30	0547-00-00	Bolt	4	92	(page 50)	Front Lift Bar, Left	1
31	0301-39-00	Flange Bushing	2	93	(page 51)	Rear Lift Bar, Right	1
32	0025-10-00	Nylon Washer	2	94	(page 51)	Rear Lift Bar, Left	1
33	0313-81-00	Screw	22	95	0313-89-00	Finger Plug	4
34	0314-77-00	Bar Spring Assembly	1	96	0313-73-00	Link Slave Pin	4
35	0303-64-00	Gas Spring	2	97	0301-53-00	Groove Pin	8
36	1229-00-00	Basin Button	2	98	0315-90-00	Snap Ring	12
37	0022-21-00	Pan Screw	2	99	0301-46-00	Flat Washer	12
38	0313-15-00	Half Support Bearing	8	100	0313-84-00	Shoulder Bolt	2
39	0303-89-00	Cast Bushing	4	101	1500-11-00	Wire Mount Clip	13
40	0313-70-00	Spacer	4	102	0306-51-00	Clamp	8
41	0023-06-00	Cap Screw	4	103	0046-01-00	Clamp	3
42	0022-24-00	Phillips Truss Hd. Screw	4	104	0046-00-00	Clamp	2
43	(page 45)	Foot Motor Assembly	1	105	0025-02-00	Lock Washer	17
44	(page 46)	Bed Lift Motor Assembly	1	106	0024-18-00	Hex Nut	21
45	(page 47)	Head Motor Assembly	1	107	0023-37-00	Screw	3
46	0301-60-00	Hex Hd. Bolt	8	108	0023-24-00	Phillips Hd. Tap. Screw	3
47	0025-07-00	Int. Star Lock Washer	10	109	0315-08-00	Crank Label	1
48	0046-15-00	Cable Clip	8	110	0199-00-00	Crank Caution Label	1
49	0309-45-00	Grommet	1	111	0141-00-00	French Caution Label	1
50	0111-01-00	Trunnion Plate	4	112	0305-06-00	Bed Crank Direct. Label	1
51	0592-08-00	Split Lock Washer	4	113	0305-07-00	Foot Crank Direct. Label	1
52	0024-31-00	Hex Hd. Bolt	4	114	0305-05-00	Head Crank Direct. Label	1
53	0314-67-00	10" Cable Extension	1	115	1131-28-00	Shock Caution Label	1
54	0314-68-00	23" Cable Extension	2	116	0307-61-00	Serial Number Label	1
55	0314-71-00	Hand Grip Boot	2	117	0084-07-00	Numerical S/N Label	1
56	0313-16-00	Fowler Weldment	1	118	(page 52)	Limit Switch Assembly	1
57	0601-24-00	Latch Pin Washer	2	119	0314-51-00	Limit Switch Cable	1
58	0315-81-00	Locking Nut	6	120	1500-22-00	Screw	2
59	0025-30-00	Flat Washer	6	121	1500-55-00	Washer	2
60	0042-07-00	Access Cover Bumper	2	122	1500-39-00	Nut	2
61	0024-03-00	Hex Nut	4	123	(page 53-56)	Service Shelf Ass'y	1

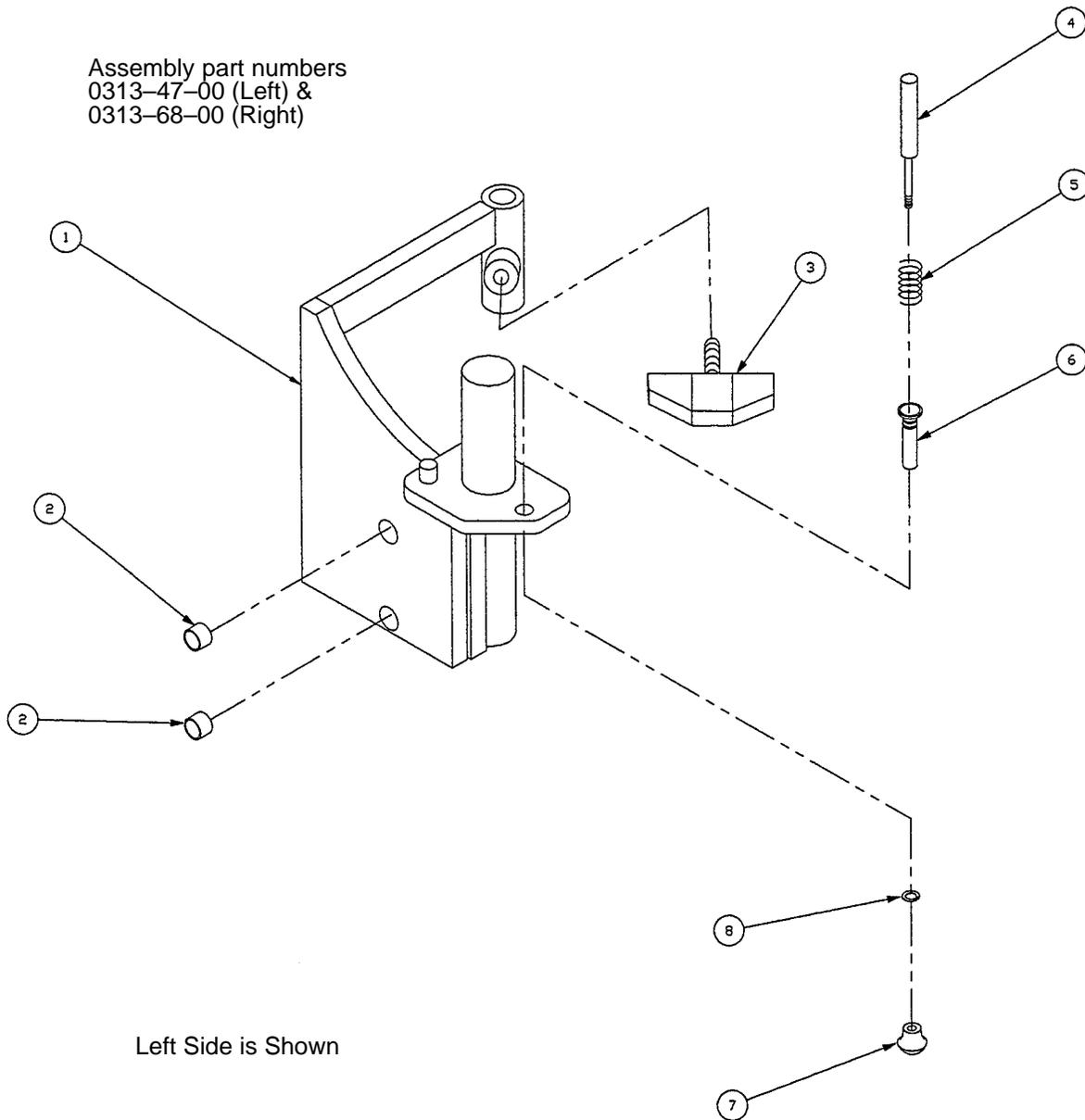
# Litter Assembly

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Item	Part No.	Part Name	Qty.	Item	Part No.	Part Name	Qty.
124	0314-64-00	Pinch Guard	2	133	1501-60-00	Spacer	4
125	0313-82-00	Power Cord	1	134	0022-00-00	Screw	4
126	0400-21-00	Strain Relief	1	135	0300-95-00	1/4" Tubing	72"
127	0050-03-00	Ring Terminal	1	136	0313-10-00	Service Shelf Cover	1
128	0589-44-00	Screw	4	137	0087-02-00	Screw	4
129	0315-47-00	Adhesive Foam Tape	91"	138	1501-48-00	Flat Washer	4
130	0850-02-00	Gas Spring Retain. Clip	4	139	1228-12-00	Butt Splice Connector	2
131	0025-10-00	Washer	4	140	0050-03-00	Ring Terminal	1
132	0315-78-00	Limit Sw. Contact Ass'y	2	141	0300-96-00	3/8" Tubing	144"

# Foot Pan Mount Assembly, Left & Right

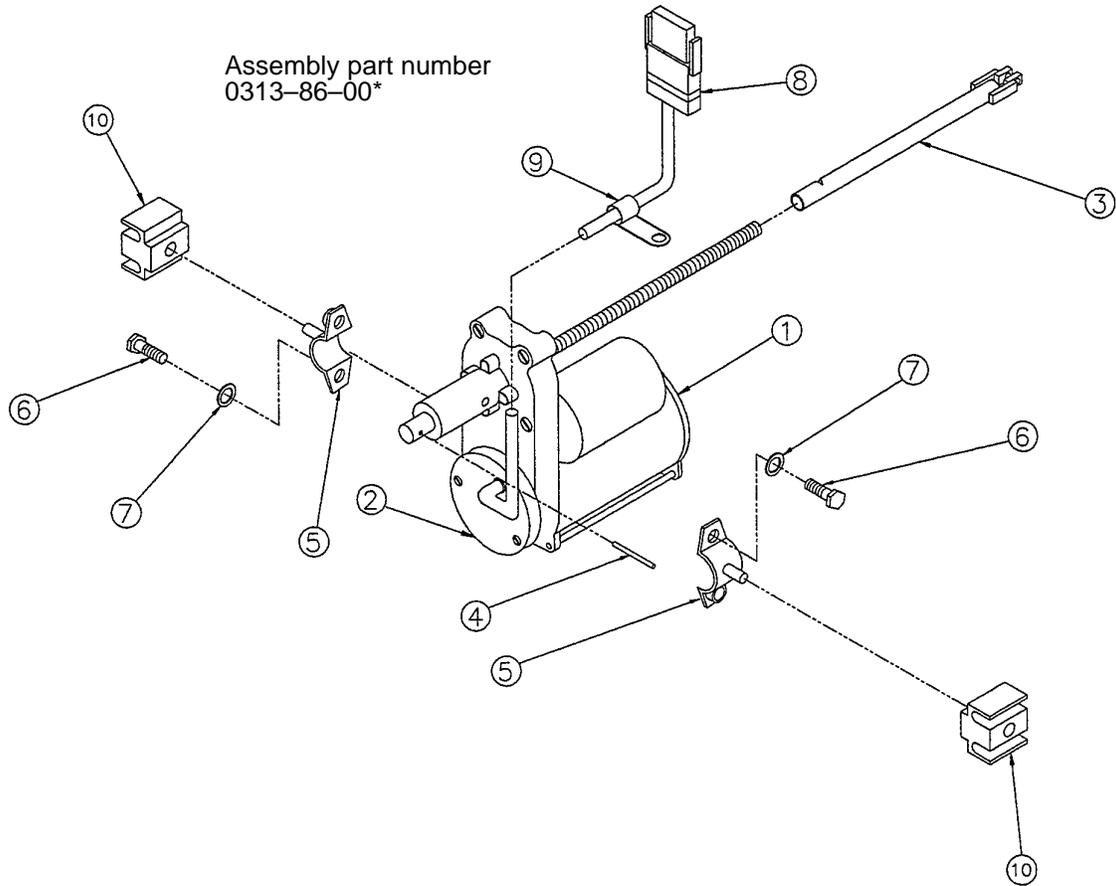
Assembly part numbers  
 0313-47-00 (Left) &  
 0313-68-00 (Right)



Left Side is Shown

Item	Part No.	Part Name	Qty.
1	0313-20-00	Foot Pan Mount, Left	1
	0313-67-00	Foot Pan Mount, Right	1
2	0314-82-00	Foot Pan Mount Bushing	2
3	1141-03-00	T-Knob	1
4	1307-01-00	Foot Panel Latch Pin	1
5	1029-06-00	Foot Latch Spring	1
6	1307-00-00	Foot Panel Latch Housing	1
7	0041-06-00	Pull Knob	1
8	0020-11-00	Retaining Ring	1

# Foot Motor Assembly

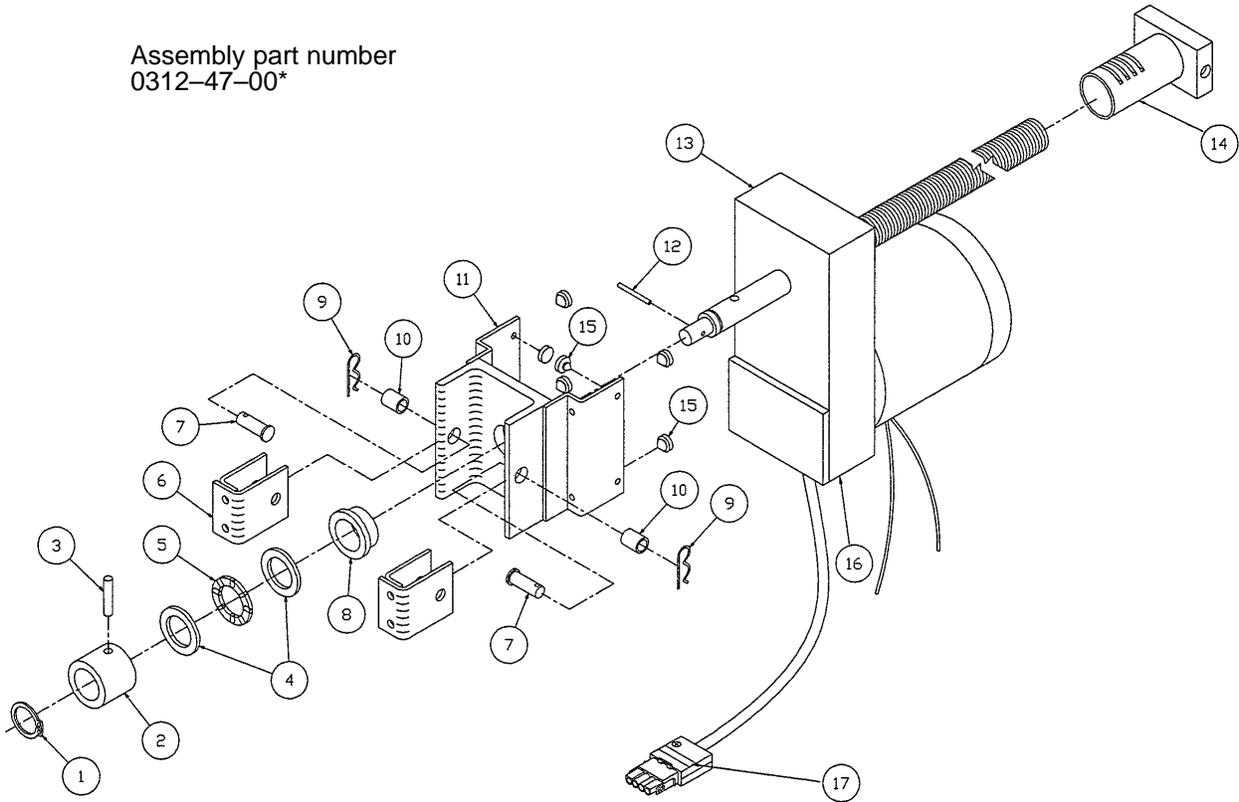


Item	Part No.	Part Name	Qty.
1	0312-46-00	Foot Motor	1
2	1076-06-00	Motor Serial # Label	1
3	0313-14-00	Foot Drive Tube	1
4	0161-01-00	Roll Pin	1
5	3979-21-00	Trunnion Mount	2
6	0023-04-00	Hex Cap Screw	2
7	0025-07-00	Int. Tooth Lock Washer	2
8	0084-01-00	Wire #1 Label	1
9	0046-00-00	Cable Clamp	1
10	0306-96-00	Trunnion Block	2
11	0315-45-00	Grease (not shown)	A/R

\* Replacement Part Number 88-0317-24-00

# Bed Lift Motor Assembly

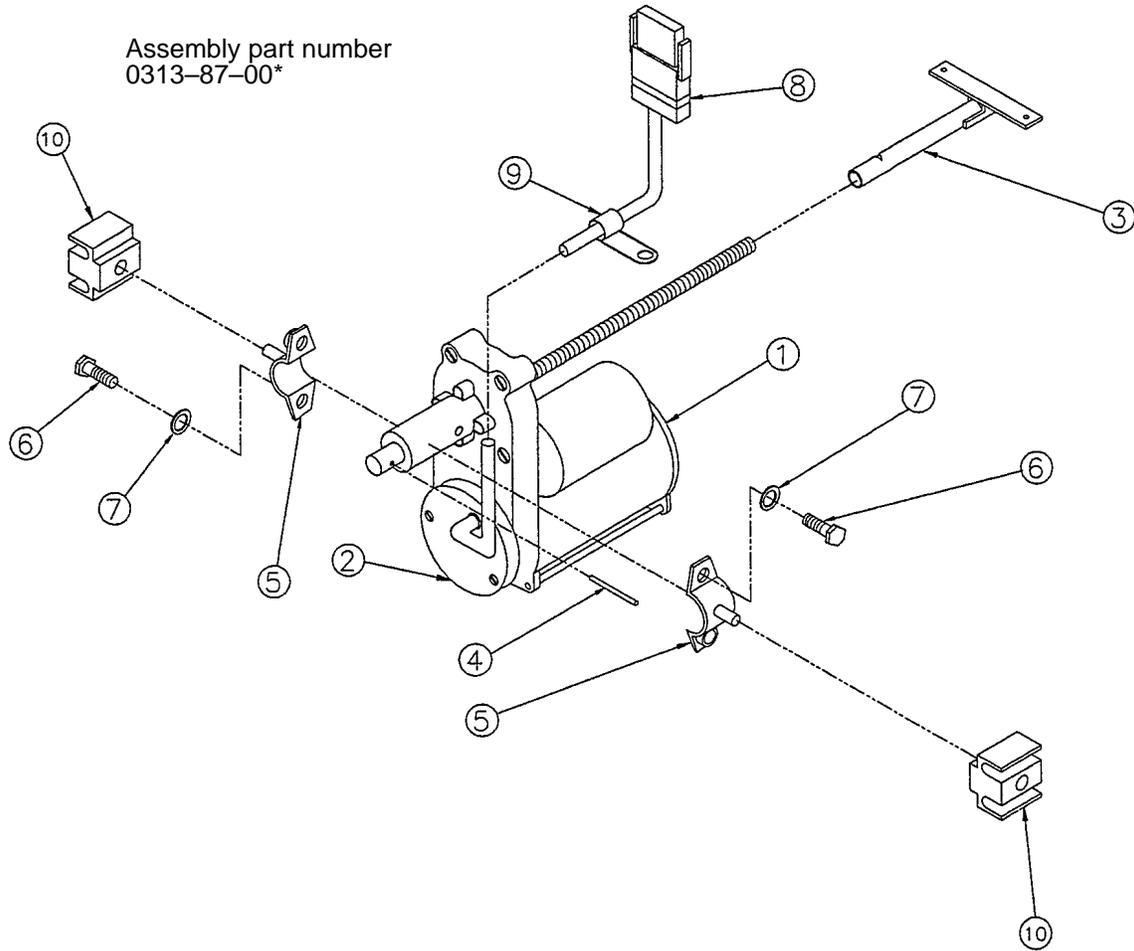
Assembly part number  
0312-47-00\*



Item	Part No.	Part Name	Qty.
1	3978-34-00	Snap Ring	1
2	0308-75-00	Collar	1
3	0308-76-00	Dowel Pin	1
4	0308-77-00	Thrust Washer	2
5	0308-78-00	Thrust Bearing	1
6	0308-79-00	Mounting Bracket	2
7	0308-81-00	Pivot Pin	2
8	0308-80-00	Flanged Bushing	1
9	0020-16-00	Bridge Pin	2
10	0308-82-00	Sleeve	2
11	0308-83-00	Swivel Plate	1
12	0606-15-00	Slotted Spring Pin	1
13	0312-21-00	Motor Assembly	1
14	0314-18-00	Bed Lift Tube	1
15	0308-86-00	Rubber Stem Bumper	8
16	1076-06-00	Motor Serial # Label	1
17	0084-02-00	Wire #2 Label	1
18	0315-45-00	Grease (not shown)	A/R

\* Replacement Part Number 88-0317-23-00

# Fowler Motor Assembly

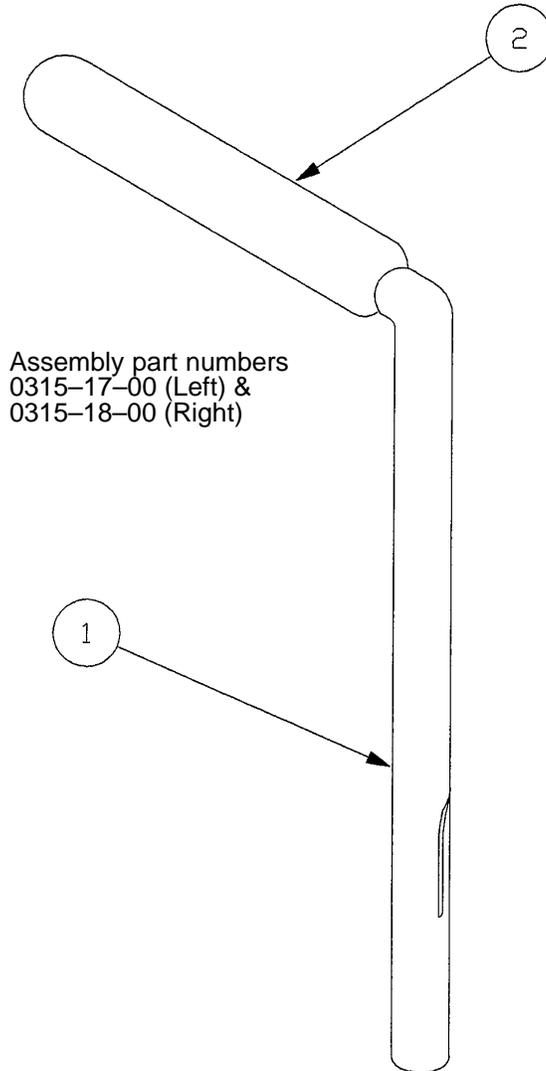


Item	Part No.	Part Name	Qty.
1	0312-45-00	Head Motor	1
2	1076-06-00	Motor Serial # Label	1
3	0313-22-00	Fowler Drive Tube	1
4	0161-01-00	Roll Pin	1
5	3979-21-00	Trunnion Mount	2
6	0023-04-00	Hex Hd. Cap Screw	2
7	0025-07-00	Int. Tooth Lock Washer	2
8	0084-03-00	Wire #3 Label	1
9	0046-00-00	Cable Clamp	1
10	0306-96-00	Trunnion Block	2
11	0315-45-00	Grease (not shown)	A/R

\* Replacement Part Number 88-0317-22-00

# Hand Grip Assembly, Left & Right

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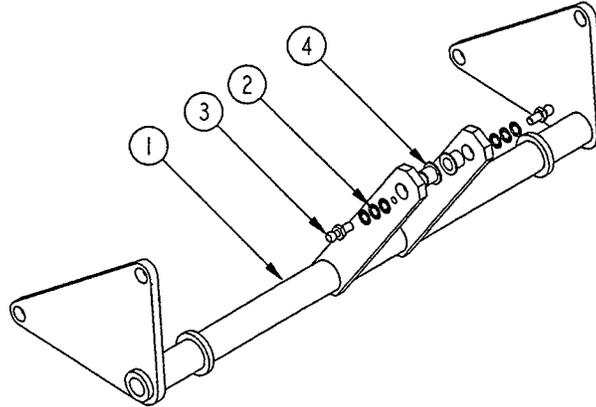


Item	Part No.	Part Name	Qty.
1	0314-27-00	Hand Grip, Left	1
	0314-28-00	Hand Grip, Right	1
2	0314-69-00	Vinyl Hand Grip	1

# Crank Drive Assembly

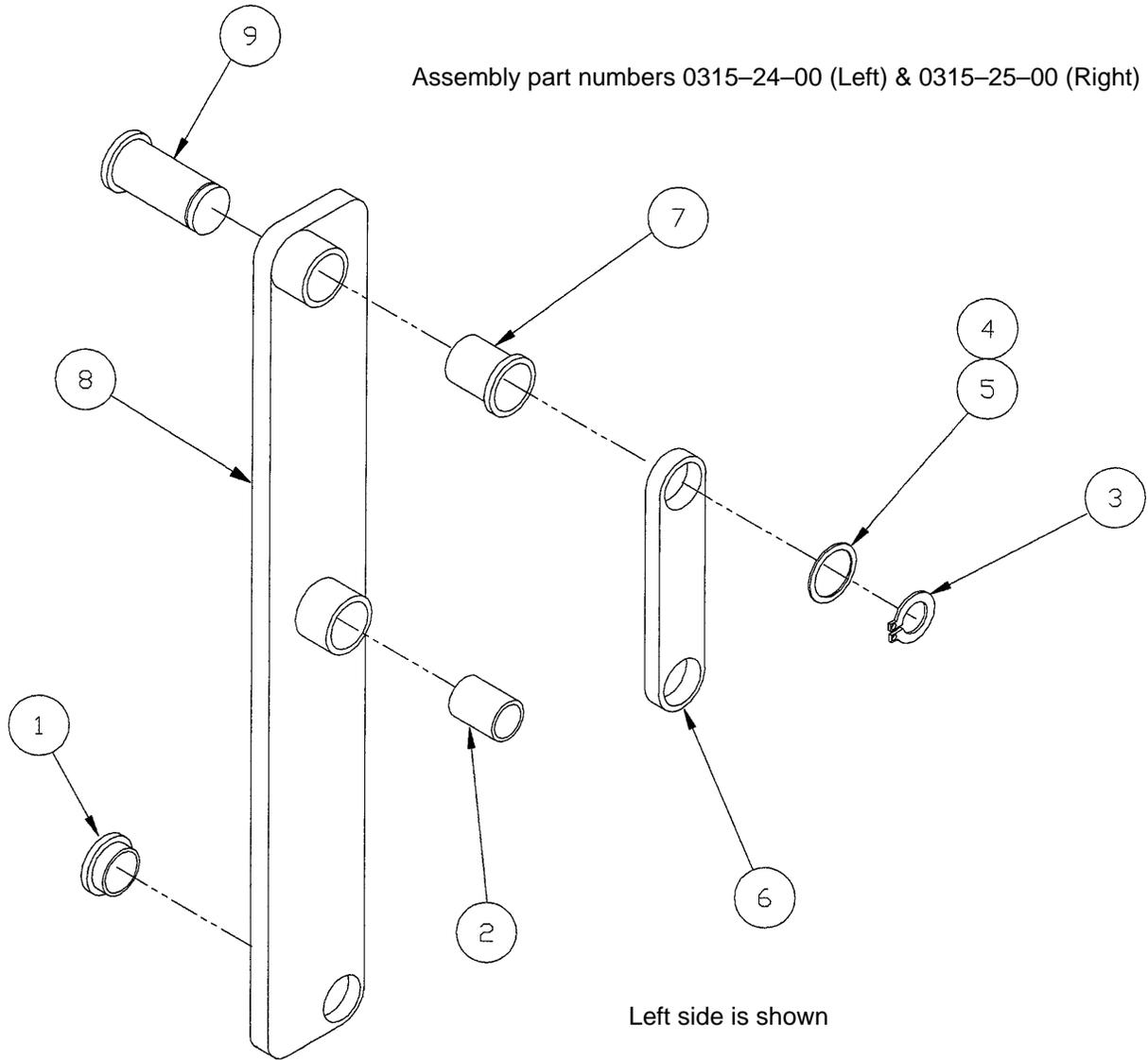
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Assembly part number  
0314-78-00



Item	Part No.	Part Name	Qty.
1	0313-01-00	Drive Crank	1
2	0025-09-00	Lock Washer	6
3	0850-01-00	Ball Stud	2
4	0301-39-00	Bronze Flange Bushing	2

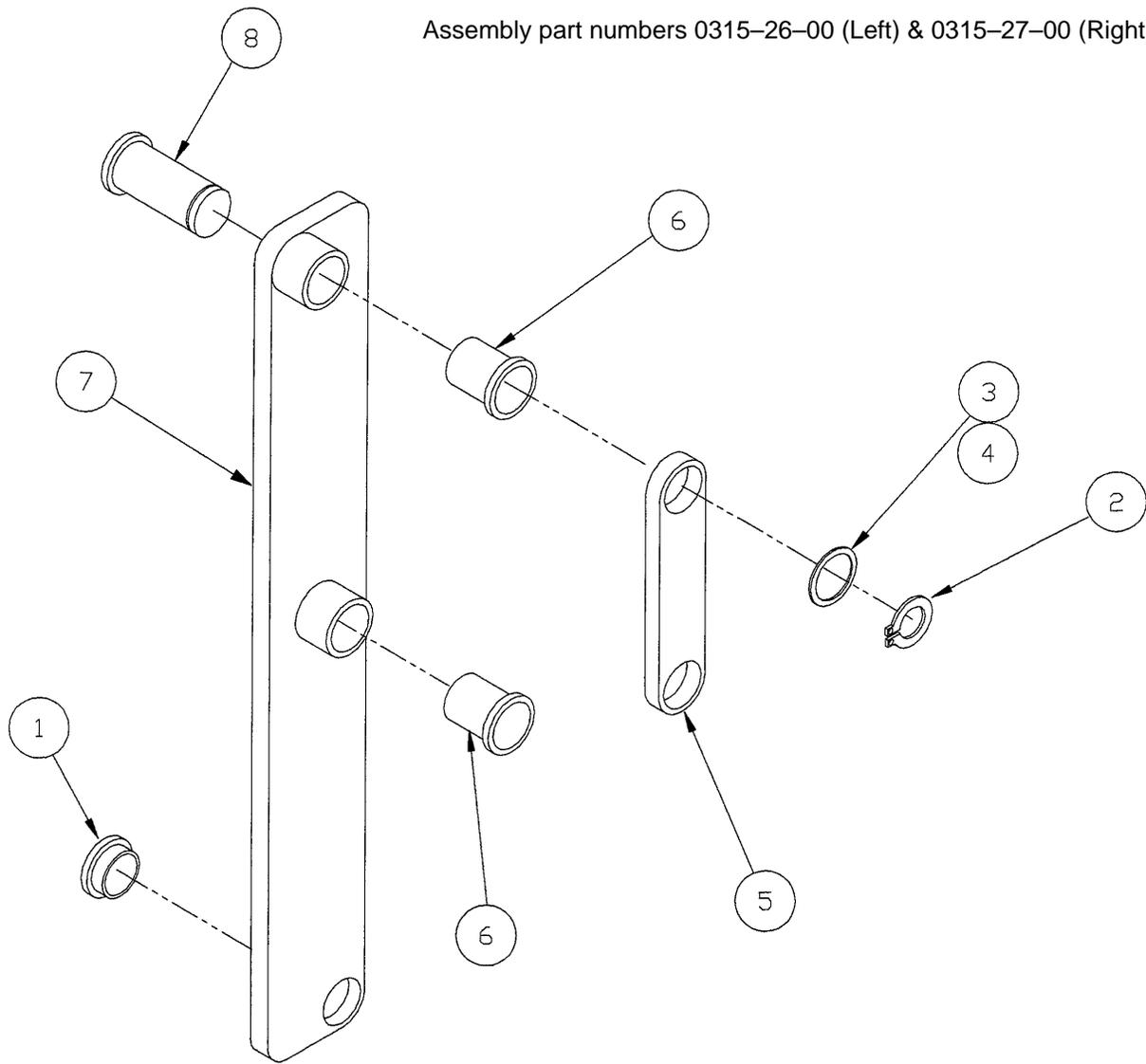
# Front Lift Bar Assembly, Left & Right



Item	Part No.	Part Name	Qty.
1	0301-35-00	Bronze Flange Bushing	1
2	0318-91-00	Bushing	1
3	0315-90-00	Retaining Ring	1
4	0602-54-00	Flat Washer	A/R
5	0301-46-00	Flat Washer	A/R
6	0314-30-00	Idle Link	1
7	0301-37-00	Bronze Flange Bushing	1
8	0314-31-00	Left Lift Bar	1
	0314-32-00	Right Lift Bar	1
9	0301-53-00	Groove Pin	1

# Rear Lift Bar Assembly, Left & Right

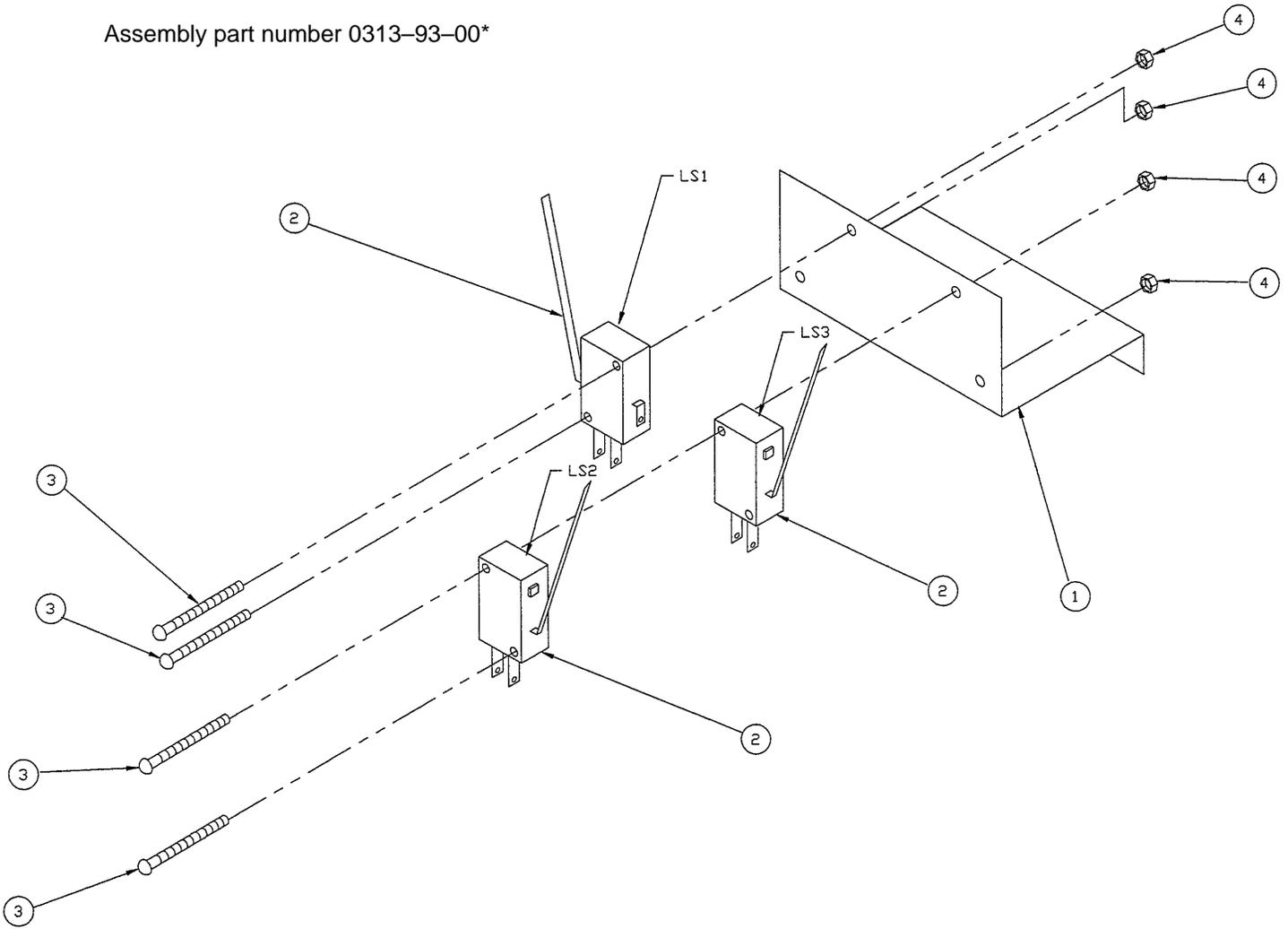
Assembly part numbers 0315-26-00 (Left) & 0315-27-00 (Right)



Item	Part No.	Part Name	Qty.
1	0301-35-00	Bronze Flange Bushing	1
2	0315-90-00	Retaining Ring	1
3	0602-54-00	Flat Washer	A/R
4	0301-46-00	Flat Washer	A/R
5	0314-30-00	Idle Link	1
6	0301-37-00	Bronze Flange Bushing	2
7	0314-31-00	Left Lift Bar	1
	0314-32-00	Right Lift Bar	1
8	0301-53-00	Groove Pin	1

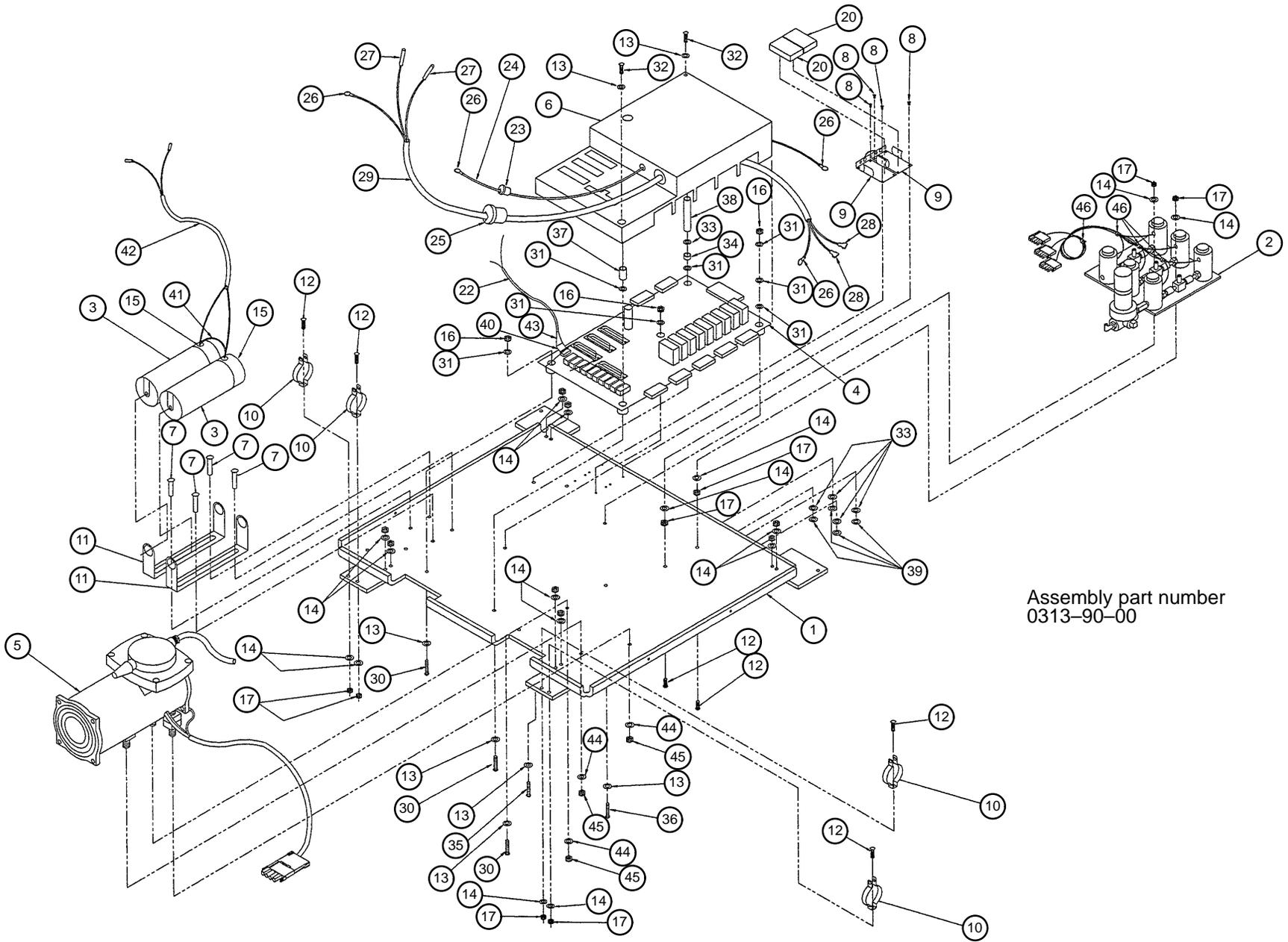
# Limit Switch Assembly

Assembly part number 0313-93-00\*



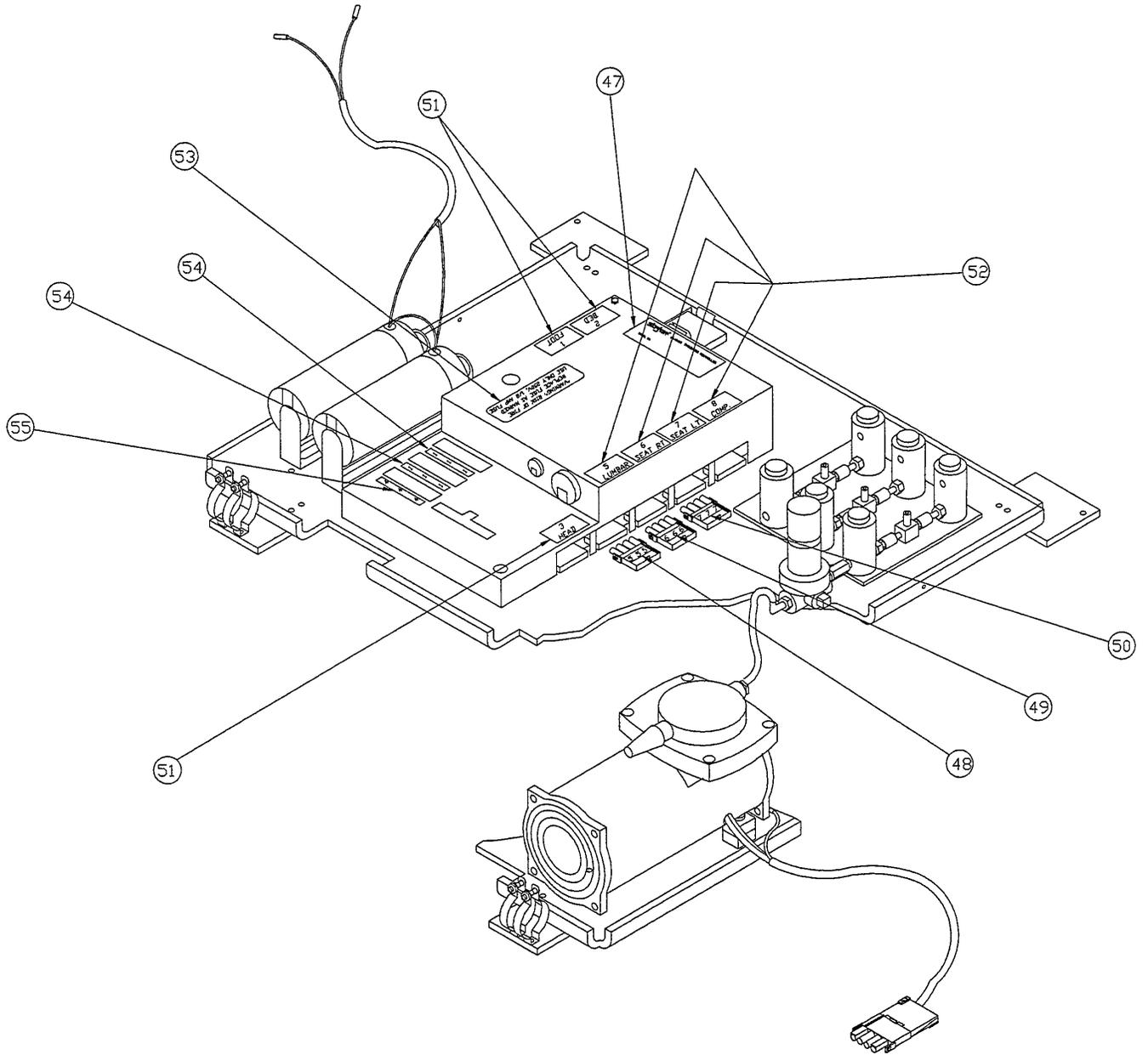
Item	Part No.	Part Name	Qty.
1	0313-91-00	Limit Switch Bracket	1
2	0307-57-00	Micro Switch	3
3	0032-08-00	Phillips Hd. Screw	4
4	0032-07-00	Nut	4

\* Replacement Part Number 88-0317-26-00

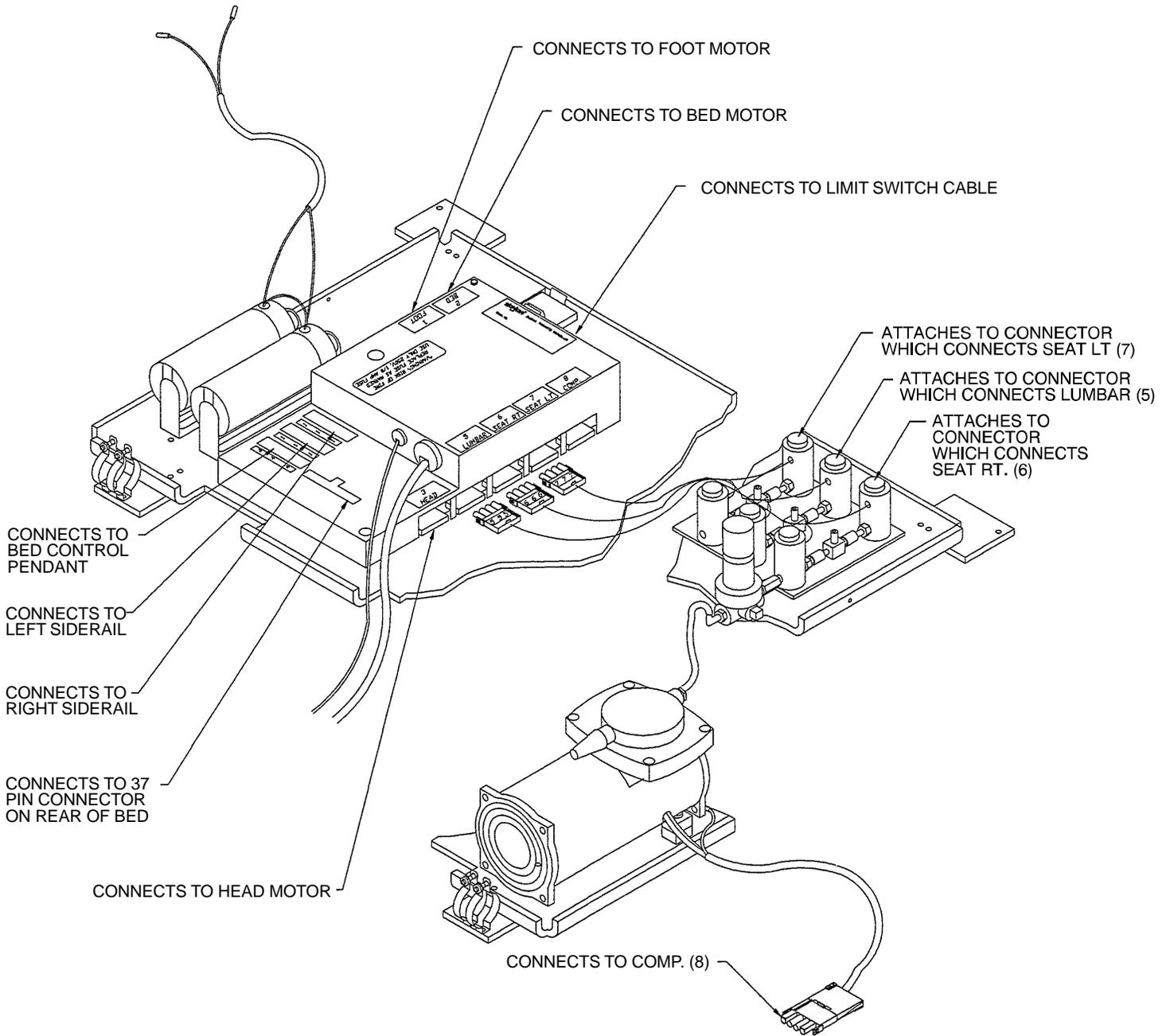


**Service Shelf Assembly**

# Service Shelf Assembly



# Service Shelf Assembly

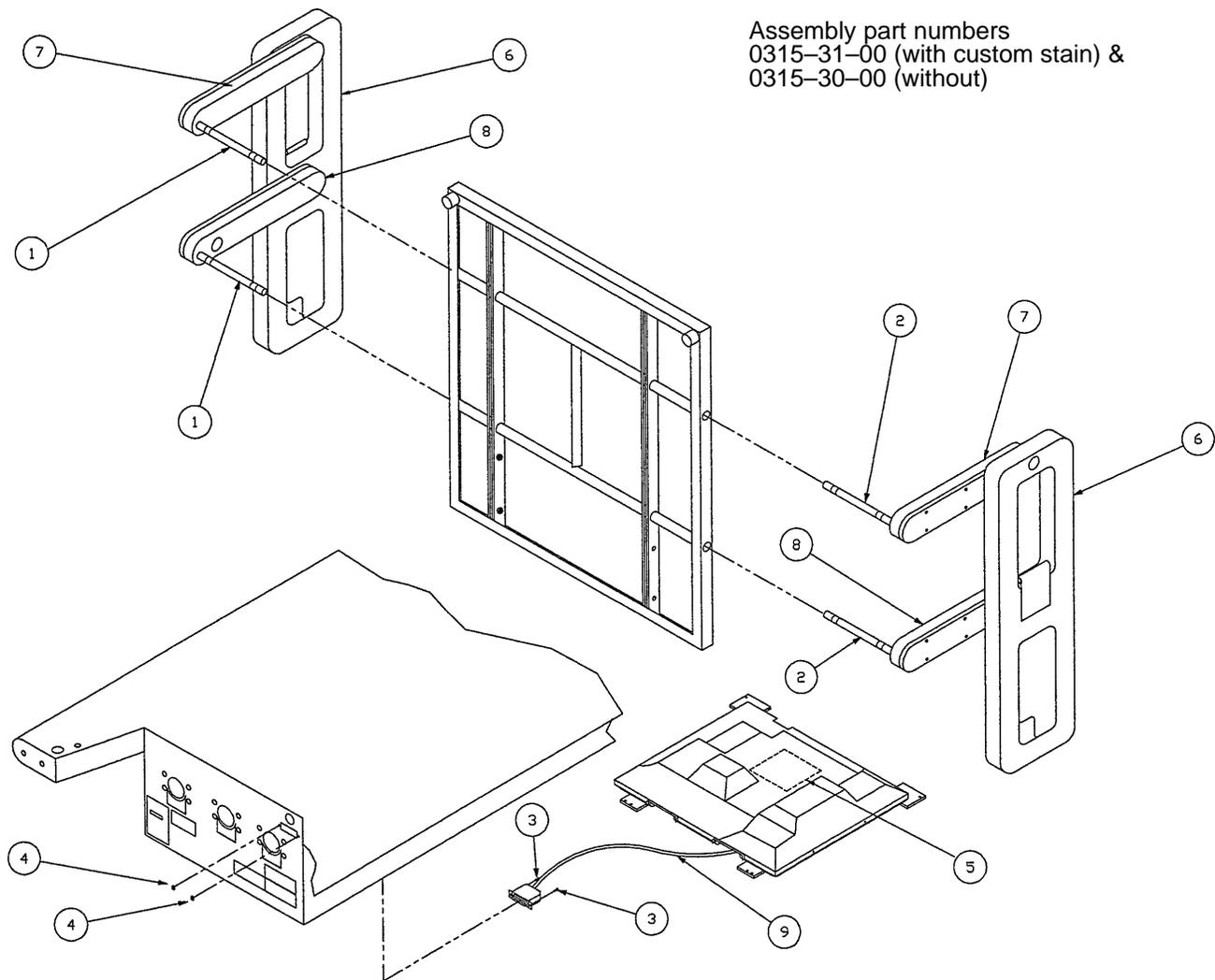


# Service Shelf Assembly

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Item	Part No.	Part Name	Qty.
1	0314-08-00	Mounting Plate	1
2	0300-06-00	Manifold Assembly	1
3	0308-91-00	Electrolytic Capacitor	2
4	0314-17-00	Printed Circuit Board	1
5	0315-44-00	Compressor Assembly	1
6	0313-55-00	PC Board Cover	1
7	0312-33-00	Pop Rivet	4
8	0173-07-00	Pop Rivet	4
9	0314-01-00	Battery Clip	2
10	0314-09-00	Service Shelf Clamp	4
11	0308-93-00	Capacitor Bracket	2
12	0022-00-00	Screw	6
13	1500-55-00	Int. Star Lock Washer	7
14	0025-02-00	Int. Star Lock Washer	16
15	0308-92-00	Capacitor End Cap	2
16	1500-39-00	Hex Nut	3
17	0024-18-00	Hex Nut	8
20	0314-90-00	Battery	2
22	0314-04-00	Battery Cable	14"
23	1132-28-00	Strain Relief	1
24	1501-30-00	Ground Wire	38"
25	0313-83-00	Strain Relief	1
26	0050-03-00	Ring Terminal	4
27	1288-12-00	Butt Connector	2
28	1132-21-00	Terminal	2
29	0314-53-00	Cable	38"
30	1501-40-00	Screw	3
31	3978-42-00	Ext. Star Lock Washer	7
32	1500-70-00	Screw	2
33	1501-48-00	Flat Washer	5
34	1501-68-00	Spacer	1
35	1500-41-00	Fil. Hd. Screw	1
36	1501-84-00	Screw	1
37	1132-16-00	Standoff	1
38	1132-17-00	Standoff	1
39	0313-54-00	Washer	4
40	0309-59-00	3-Pin Connector	1
41	0312-41-00	Capacitor Jumper Wire Ass'y	1
42	0312-30-00	Cable Cap Jumper Ass'y	1
43	0312-29-00	Heat Shrink Tubing	2
44	1500-56-00	Star Lock Washer	3
45	0306-68-00	Hex Nut	3
46	1502-56-00	Zip Tie	4
47	1076-22-00	Pneu. Cont. Serial # Label	1
48	0310-03-00	Wire #5 Label	1
49	0310-04-00	Wire #6 Label	1
50	0310-05-00	Wire #7 Label	1
51	0315-00-00	Cont. Mtrs. Label	1
52	0310-06-00	Controller Label	1
53	0315-41-00	Fuse Label	1
54	0084-01-00	Wire #1 Label	2
55	0310-02-00	Wire #4 Label	1

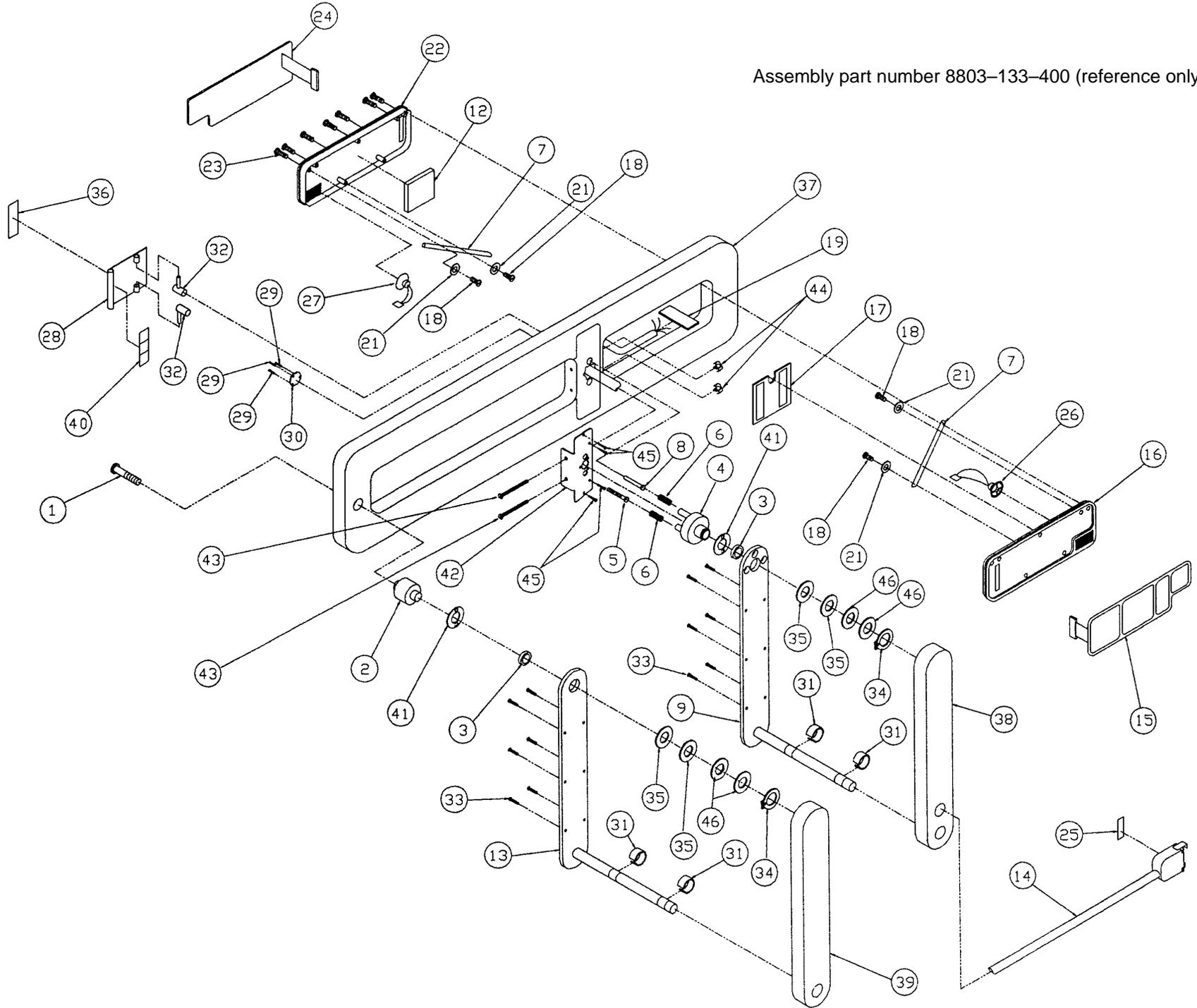
# Wood Siderail Option Ass'y, with & w/o Custom Stain



Assembly part numbers  
 0315-31-00 (with custom stain) &  
 0315-30-00 (without)

Item	Part No.	Part Name	Qty.
1	(page 58 & 59)	Siderail Hardware Ass'y, Lt.	1
2	(page 60 & 61)	Siderail Hardware Ass'y, Rt.	1
3	0309-68-00	Phillips Pan Hd. Screw	2
4	0309-27-00	Rear Latching Block	2
5	0315-84-00	Nurse Comm. Schematic	1
6	0313-11-00	Wood Siderail, Nurse Comm.	2
	0313-48-00	Wood Siderail, Cust. Stain	2
7	0313-05-00	Siderail Cover	2
	0314-49-00	Siderail Cover, Cust. Stain	2
8	0313-06-00	Siderail Cover w/Groove	2
	0314-48-00	Cover w/Groove, Cust. Stain	2
9	0309-21-00	Nurse Comm. Cable Ass'y	1

Assembly part number 8803-133-400 (reference only)



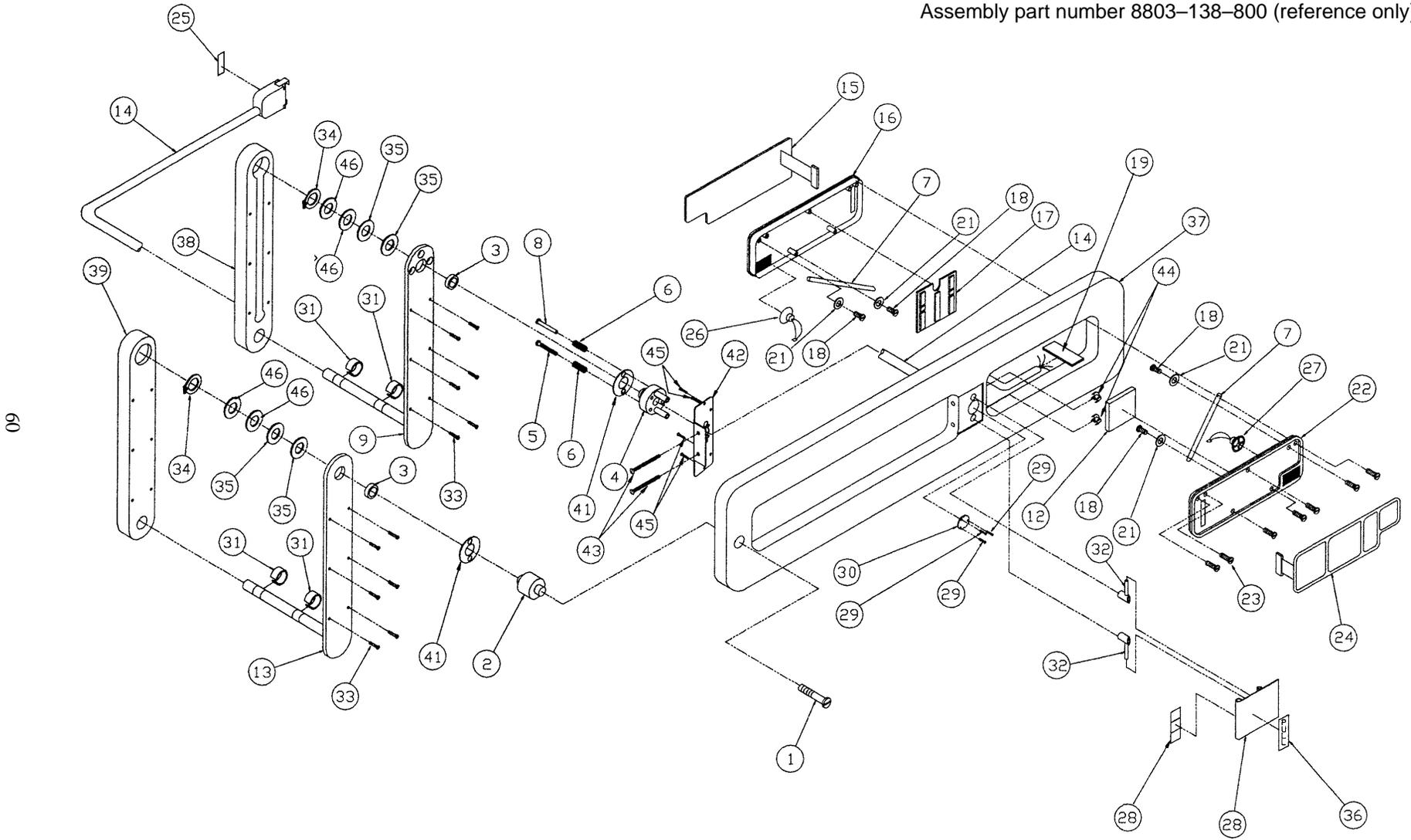
**Siderail Hardware Assembly, Left**

# Siderail Hardware Assembly, Left

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Item	Part No.	Part Name	Qty.
1	8803-067-300	Button Hd. Screw	1
2	8803-130-800	Swing Arm Bushing	1
3	8803-132-800	Garlock DU Bushing	2
4	8803-130-900	Locking Bushing	1
5	8803-132-700	Soc. Hd. Cap Screw	1
6	8803-132-600	Spring	2
7	8803-135-200	Spring Clip	2
8	8803-132-500	Swing Pin	1
9	8803-140-500	Siderail Front Weldment	1
12	8803-134-300	Foam	1
13	8803-130-700	Siderail Rear Weldment	1
14	8803-092-000	Siderail Cable Assembly	1
15	8803-091-100	Membrane Switch, Patient Side	1
16	8803-091-400	Plastic Housing, Patient Side	1
17	8803-109-500	PCB Assembly	1
18	8800-242-900	Phillips Hd. Screw	4
19	8803-092-400	Nurse Comm. Connector	1
21	8803-135-400	Washer	4
22	8803-091-300	Plastic Housing, Nurse Side	1
23	8800-243-000	Phillips Hd. Screw	7
24	8803-091-000	Membrane Switch, Nurse Side	1
25	8800-840-100	#1 Wire Label	1
26	8803-135-000	8 Ohm Speaker Ass'y	1
27	8803-135-100	40 Ohm Nurse Speaker Ass'y	1
28	8803-132-400	Pull Handle	1
29	8803-140-600	Phillips Flat Hd. Screw	3
30	8803-132-300	Plate w/Notch	1
31	8803-137-800	Nyliner	4
32	8803-136-100	Base Pivot	2
33	8800-233-200	Wood Screw	12
34	8839-783-400	Snap Ring	2
35	8803-105-000	Washer	4
36	8803-147-600	Siderail Pull Label	1
37	8803-134-800	Custom Stain Wood Siderail	1
38	8803-144-800	Custom Stain Cover w/Groove	1
39	8803-144-900	Custom Stain Siderail Cover	1
40	8800-420-400	Rubber Roll Stock	3
41	8803-164-100	Scuff Pad	2
42	8803-166-500	Latch Support Plate	1
43	8803-166-300	Flat Hd. Screw	2
44	8803-166-400	Tee Nut	2
45	8803-149-400	Wood Screw	4
46	8803-158-200	Nylon Washer	A/R

Assembly part number 8803-138-800 (reference only)



09

**Siderail Hardware Assembly, Right**

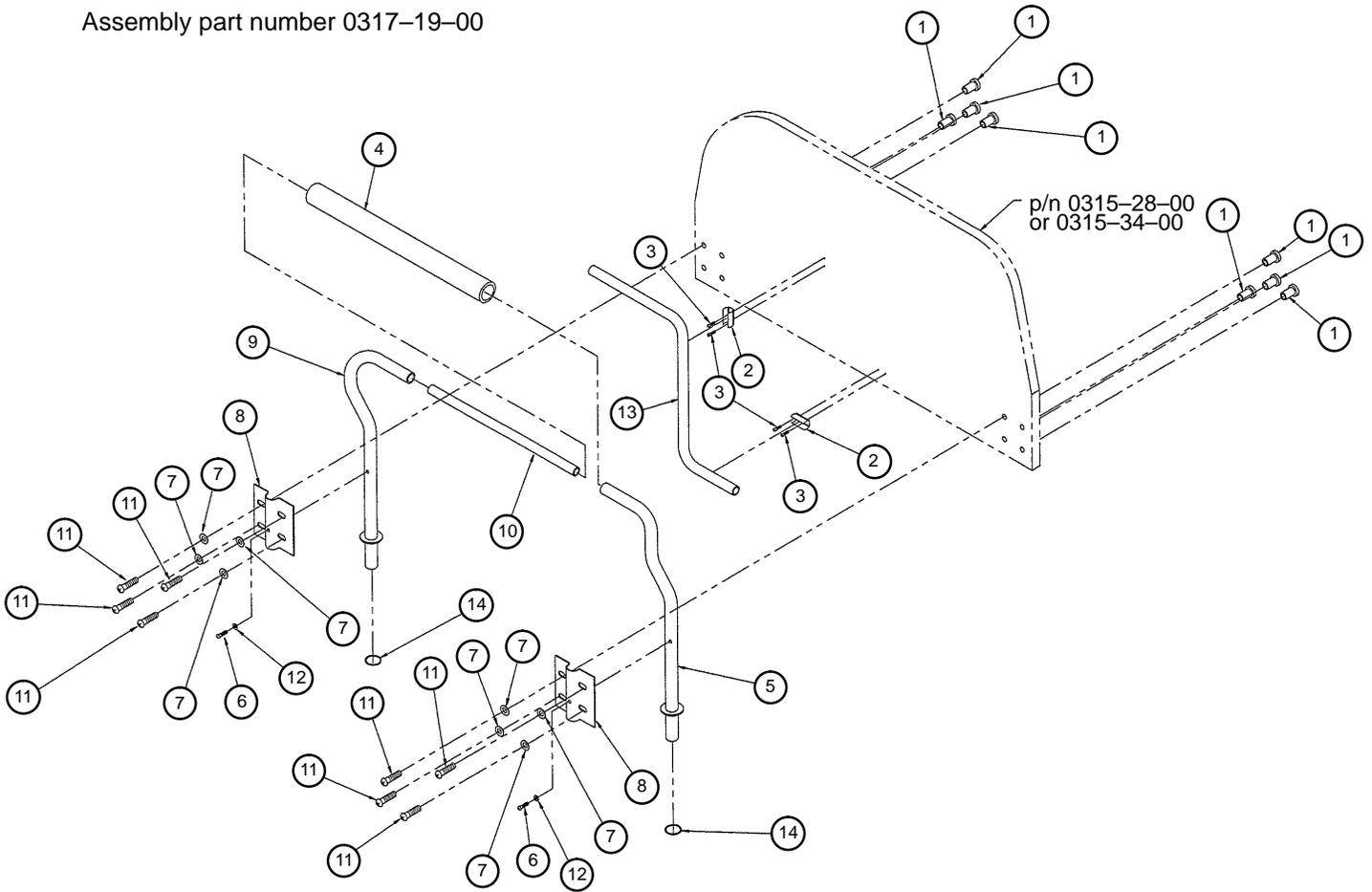
# Siderail Hardware Assembly, Right

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Item	Part No.	Part Name	Qty.
1	8803-067-300	Button Hd. Screw	1
2	8803-130-800	Swing Arm Bushing	1
3	8803-132-800	Garlock DU Bushing	2
4	8803-130-900	Locking Bushing	1
5	8803-132-700	Soc. Hd. Cap Screw	1
6	8803-132-600	Spring	2
7	8803-135-200	Spring Clip	2
8	8803-132-500	Swing Pin	1
9	8803-140-500	Siderail Front Weldment	1
12	8803-134-300	Foam	1
13	8803-130-700	Siderail Rear Weldment	1
14	8803-092-000	Siderail Cable Assembly	1
15	8803-091-100	Membrane Switch, Patient Side	1
16	8803-091-400	Plastic Housing, Patient Side	1
17	8803-109-500	PCB Assembly	1
18	8800-242-900	Phillips Hd. Screw	4
19	8803-092-400	Nurse Comm. Connector	1
21	8803-135-400	Washer	4
22	8803-091-300	Plastic Housing, Nurse Side	1
23	8800-243-000	Phillips Hd. Screw	7
24	8803-091-000	Membrane Switch, Nurse Side	1
25	8800-840-100	#1 Wire Label	1
26	8803-135-000	8 Ohm Speaker Ass'y	1
27	8803-135-100	40 Ohm Nurse Speaker Ass'y	1
28	8803-132-400	Pull Handle	1
29	8803-140-600	Phillips Flat Hd. Screw	3
30	8803-132-300	Plate w/Notch	1
31	8803-137-800	Nyliner	4
32	8803-136-100	Base Pivot	2
33	8800-233-200	Wood Screw	12
34	8839-783-400	Snap Ring	2
35	8803-105-000	Washer	4
36	8803-147-600	Siderail Pull Label	1
37	8803-134-800	Custom Stain Wood Siderail	1
38	8803-144-800	Custom Stain Cover w/Groove	1
39	8803-144-900	Custom Stain Siderail Cover	1
40	8800-420-400	Rubber Roll Stock	3
41	8803-164-100	Scuff Pad	2
42	8803-166-500	Latch Support Plate	1
43	8803-166-300	Flat Hd. Screw	2
44	8803-166-400	Tee Nut	2
45	8803-149-400	Wood Screw	4
46	8803-158-200	Nylon Washer	A/R

# Head Board Hardware Assembly

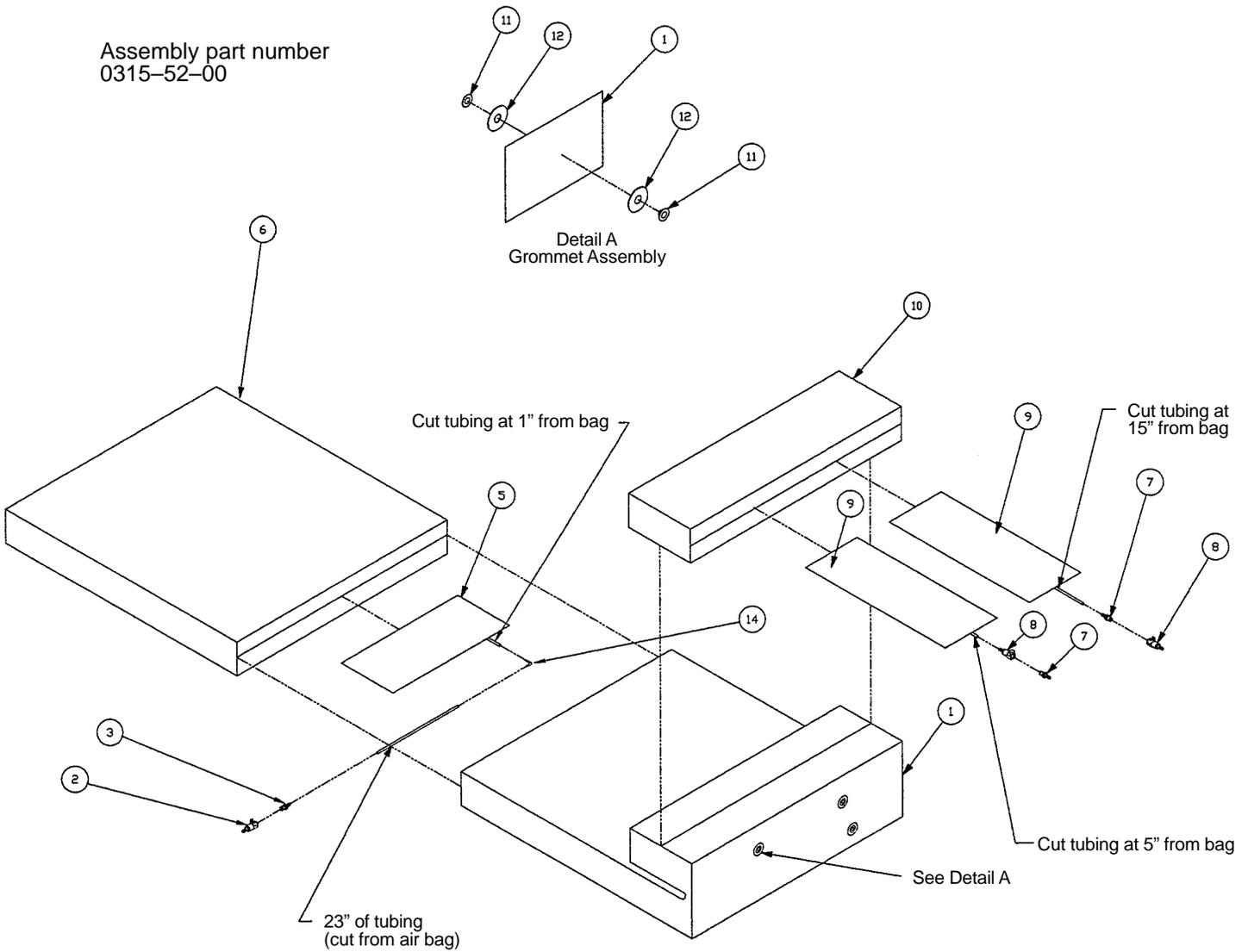
Assembly part number 0317-19-00



Item	Part No.	Part Name	Qty.
1	0834-01-00	Joint Conn. Cap	8
2	0573-02-00	Hand Crank Clip	2
3	3979-19-00	Shim Screw	4
4	0589-90-00	Foam Cover	1
5	0314-60-00	Push Bar, Rt.	1
6	0022-00-00	Phillips Pan Hd. Screw	2
7	0025-05-00	Flat Washer	8
8	0314-39-00	Head Bd. Mtg. Bracket	2
9	0314-59-00	Push Bar, Lt.	1
10	3978-47-00	Push Handle Tube	1
11	0022-24-00	Phillips Truss Hd. Screw	8
12	0025-02-00	Int. Tooth Lock Washer	2
13	0314-58-00	Heavy-Duty Hand Crank	1
14	0504-01-00	O-Ring	2

# Head/Seat Comfort Mattress Assembly

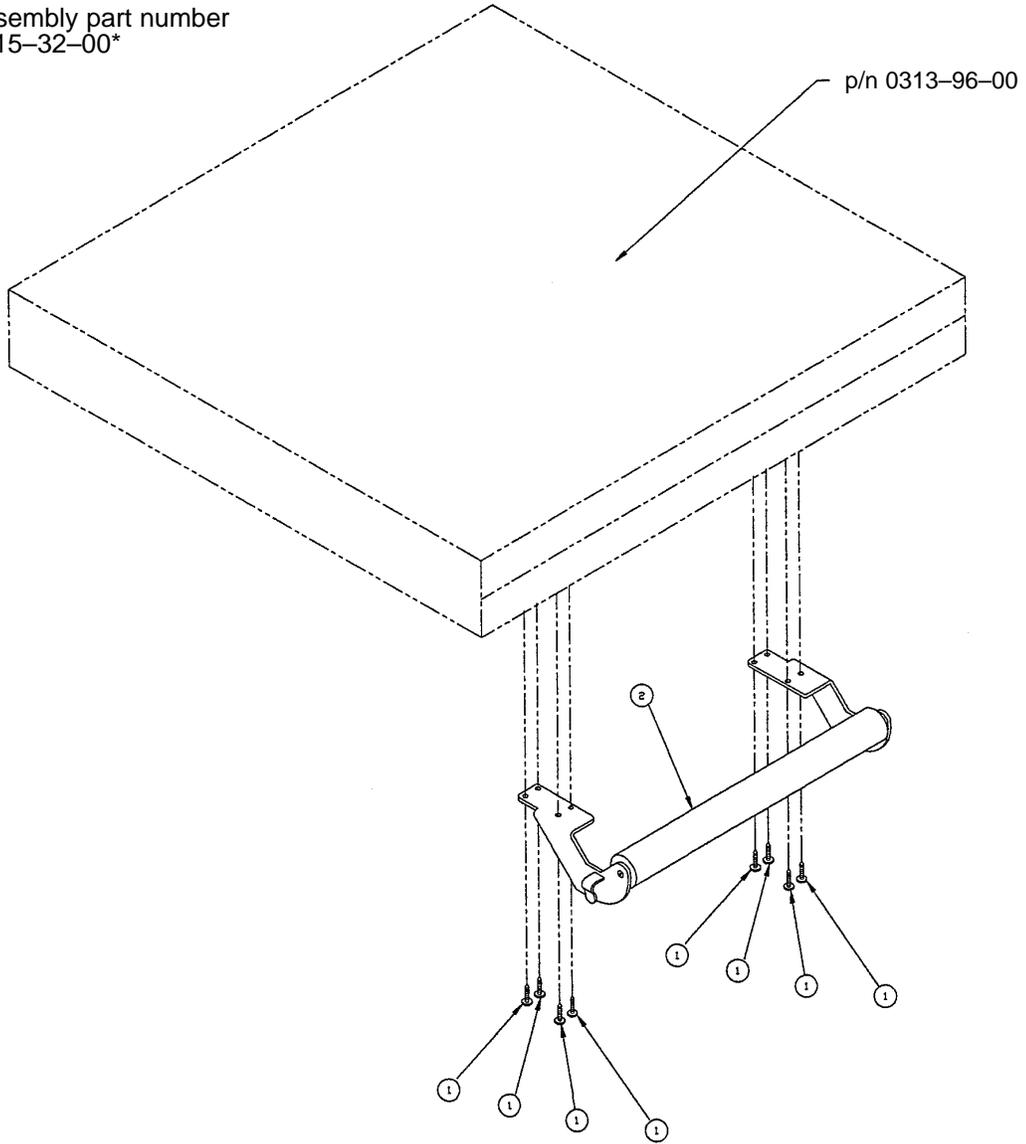
Assembly part number  
0315-52-00



Item	Part No.	Part Name	Qty.
1	0313-44-00	Remov. Conf. Mattress Cover	1
2	0305-33-00	Female Coupling	1
3	0305-34-00	Male Coupling	1
4	0300-95-00	Tubing	5"
5	0300-24-00	Lumbar Bag	1
6	0308-57-00	Comfort Head Foam	1
7	0309-30-00	Male Disconnect Coupling	2
8	0309-31-00	Female Disconnect Coupling	2
9	0309-29-00	Remov. Conf. Perineal Bag	2
10	0313-46-00	Comfort Seat Foam	1
11	0020-18-00	Grommet	3
12	0025-34-00	Washer	6
14	0308-56-00	90° Connector	1

# Push Bar Option Assembly

Assembly part number  
0315-32-00\*

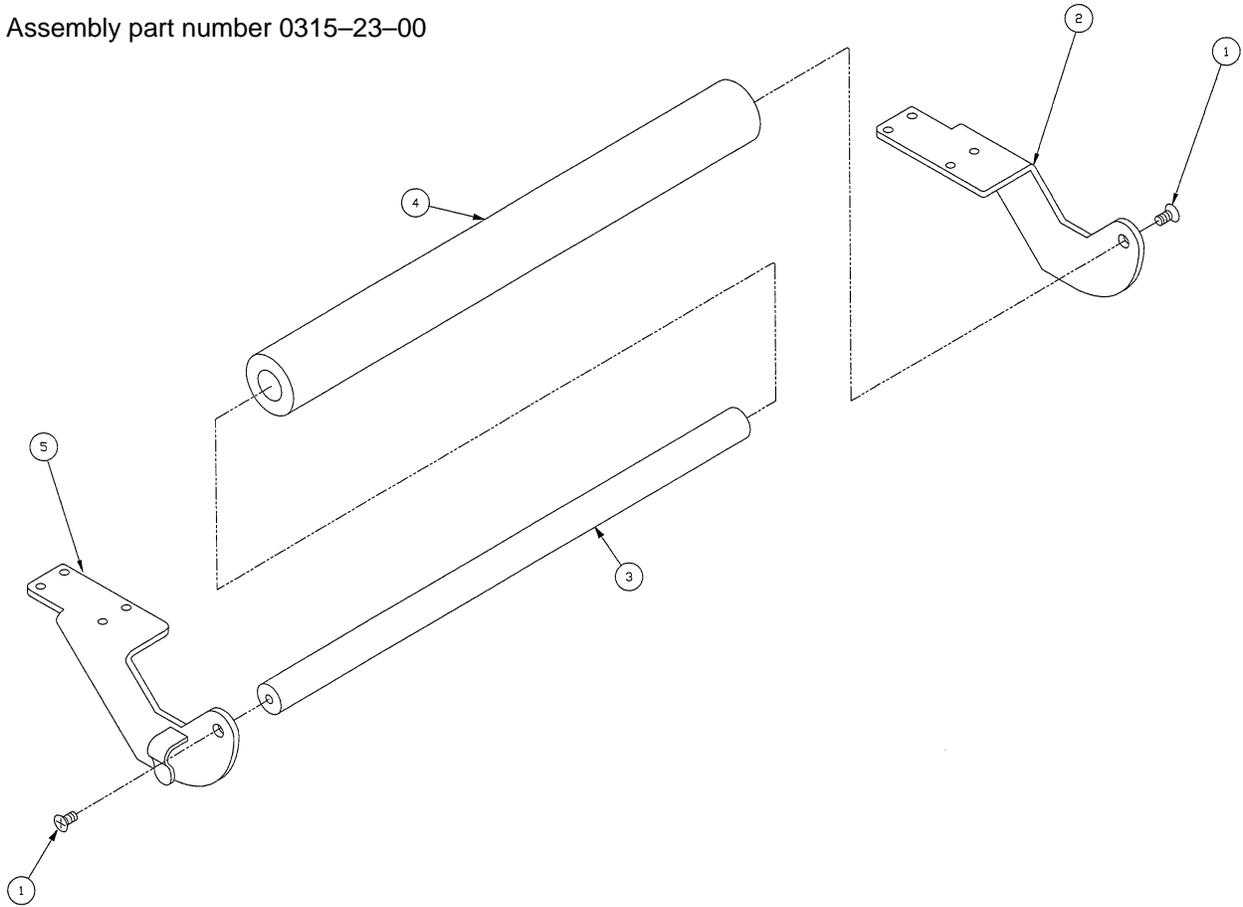


Item	Part No.	Part Name	Qty.
1	0690-00-00	Tapping Screw	8
2	(page 65)	Push Bar Assembly	1

\*Replacement part number 0317-28-00.

# Push Bar Assembly

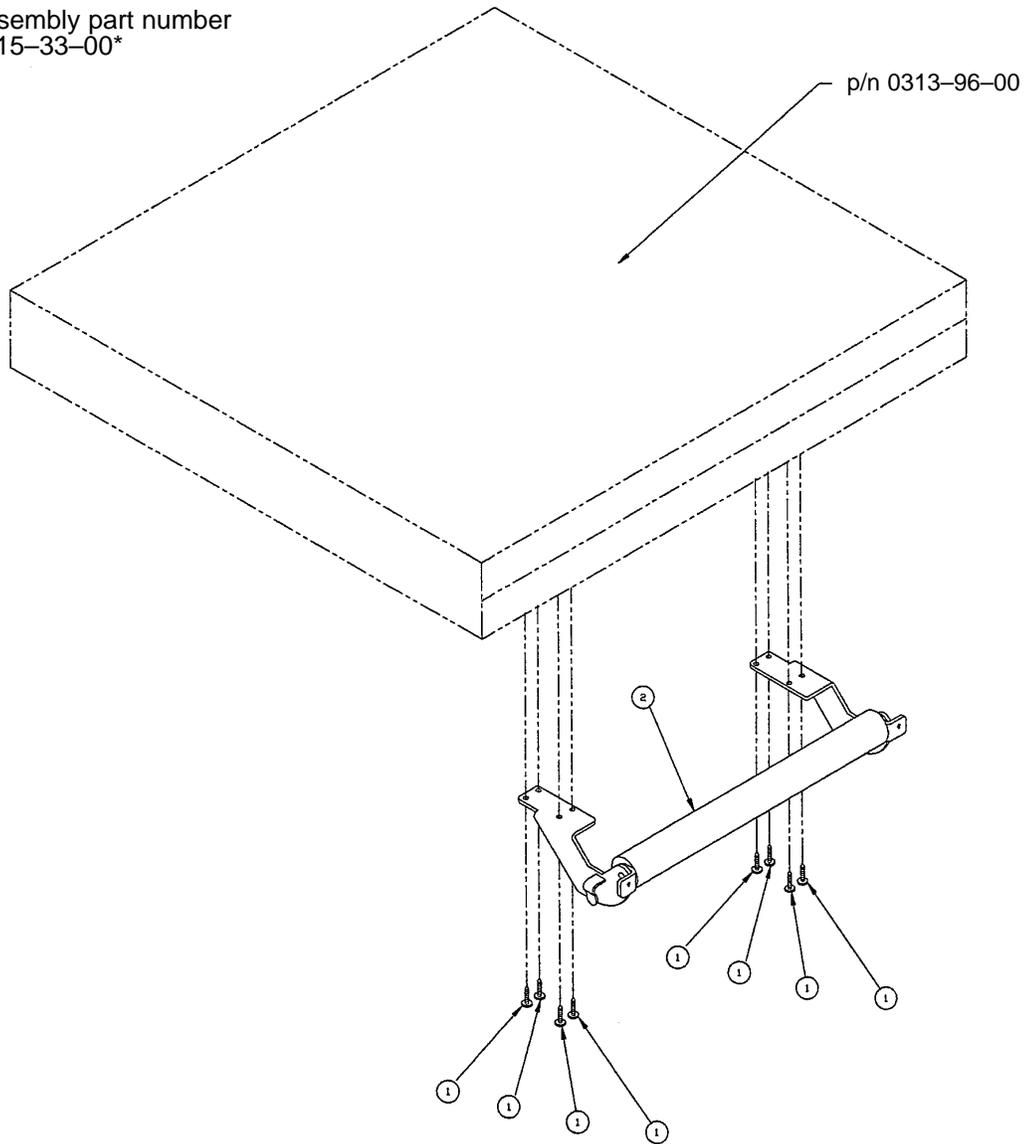
Assembly part number 0315-23-00



Item	Part No.	Part Name	Qty.
1	0022-44-00	Phillips Flat Hd. Screw	2
2	0314-56-00	Push Bar Bracket, Lt.	1
3	0307-38-00	Push Bar	1
4	0589-90-00	Foam Cover	1
5	0314-57-00	Push Bar Bracket, Rt.	1

# Push Bar Option Assembly, Foot Lock

Assembly part number  
0315-33-00\*

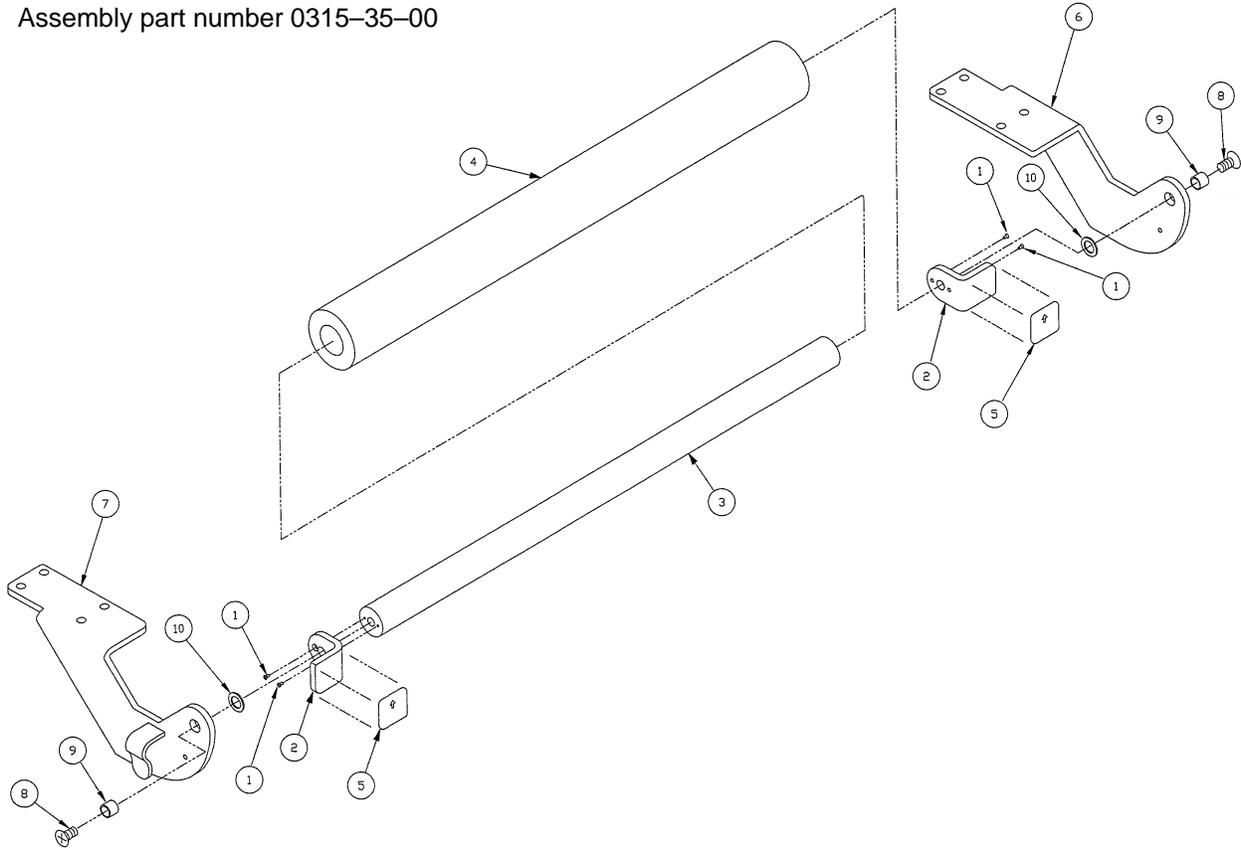


Item	Part No.	Part Name	Qty.
1	0690-00-00	Tapping Screw	8
2	(page 67)	Push Bar Assembly	1

\*Replacement part number 0317-29-00.

# Foot Lock Push Bar Assembly

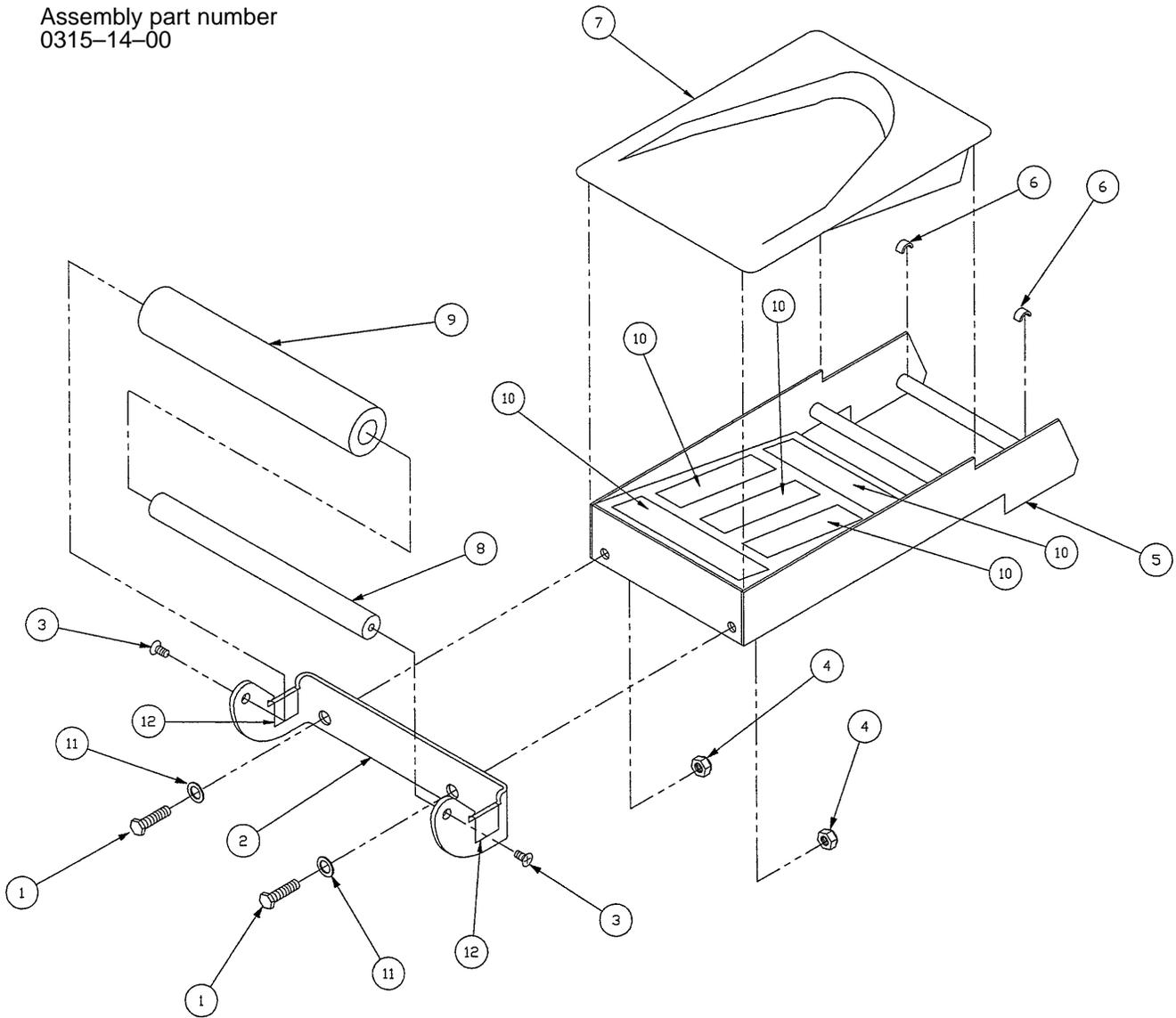
Assembly part number 0315-35-00



Item	Part No.	Part Name	Qty.
1	0309-79-00	Screw	4
2	0314-84-00	Angle Bracket	2
3	0307-38-00	Push Bar	1
4	0589-90-00	Foam Cover	1
5	0309-88-00	Foot Lock Label	2
6	0314-56-00	Push Bar Bracket, Lt.	1
7	0314-57-00	Push Bar Bracket, Rt.	1
8	0022-24-00	Phillips Truss Hd. Screw	2
9	1501-60-00	Spacer	2
10	0310-48-00	Nylon Washer	2

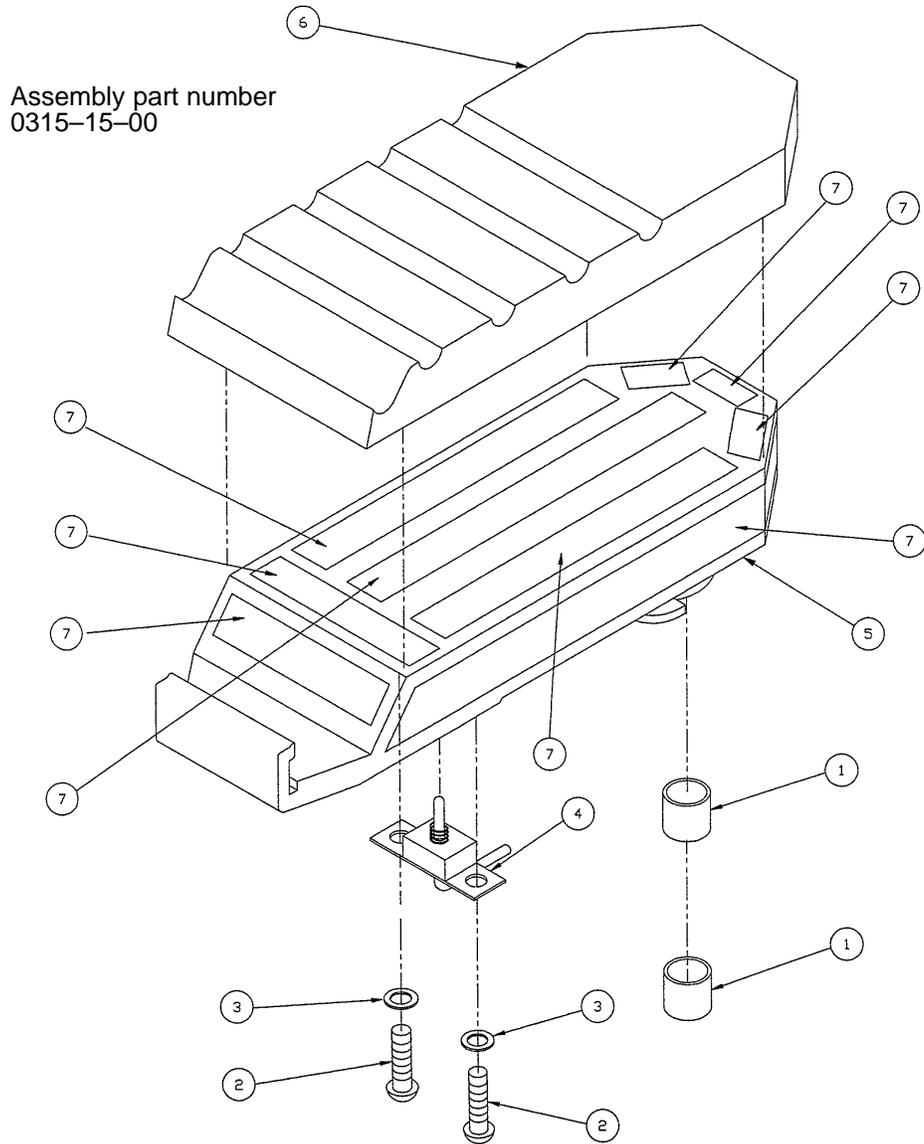
# Foot Rest Assembly

Assembly part number  
0315-14-00



Item	Part No.	Part Name	Qty.
1	3979-37-00	Hex Hd. Cap Screw	2
2	0314-42-00	Foot Rest Handle Bracket	1
3	0022-44-00	Phillips Flat Hd. Screw	2
4	0024-02-00	Nut	2
5	0314-41-00	Foot Rest	1
6	0594-49-00	Foot Rest Bushing	2
7	0590-60-00	Foot Rest Pad	1
8	0307-40-00	Foot Rest Handle Bar	1
9	0307-43-00	Foam Cover	1
10	0315-47-00	1" Wide Foam Tape	33"
11	0025-09-00	Int. Tooth Lock Washer	2
12	0063-01-00	Stryker Tape	3"

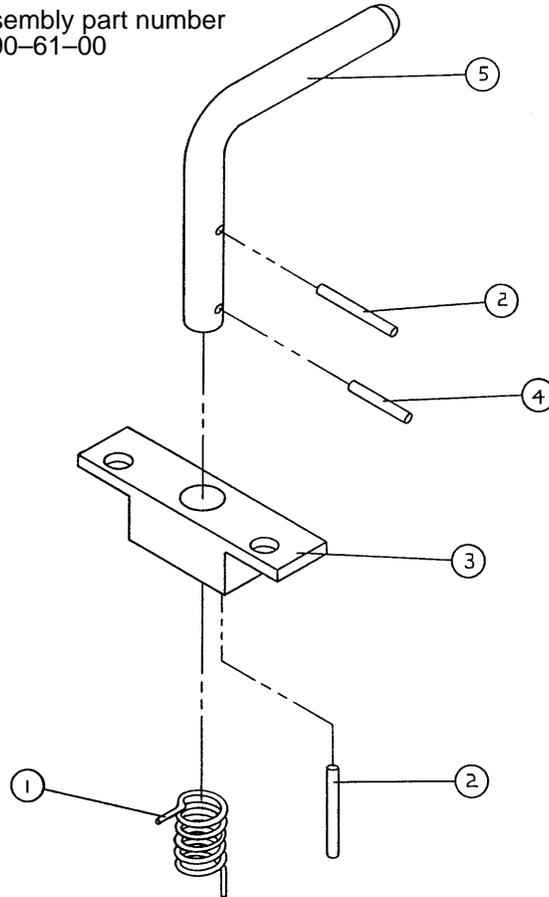
# Foot Pan Assembly



Item	Part No.	Part Name	Qty.
1	0021-04-00	Bushing	2
2	0022-24-00	Phillips Truss Hd. Screw	2
3	0025-07-00	Int. Tooth Lock Washer	2
4	(page 70)	Foot Pan Latch Assembly	1
5	0314-40-00	Foot Pan	1
6	0590-58-00	Foot Pan Pad	1
7	0315-47-00	1" Foam Tape	72"

# Foot Pan Latch Assembly

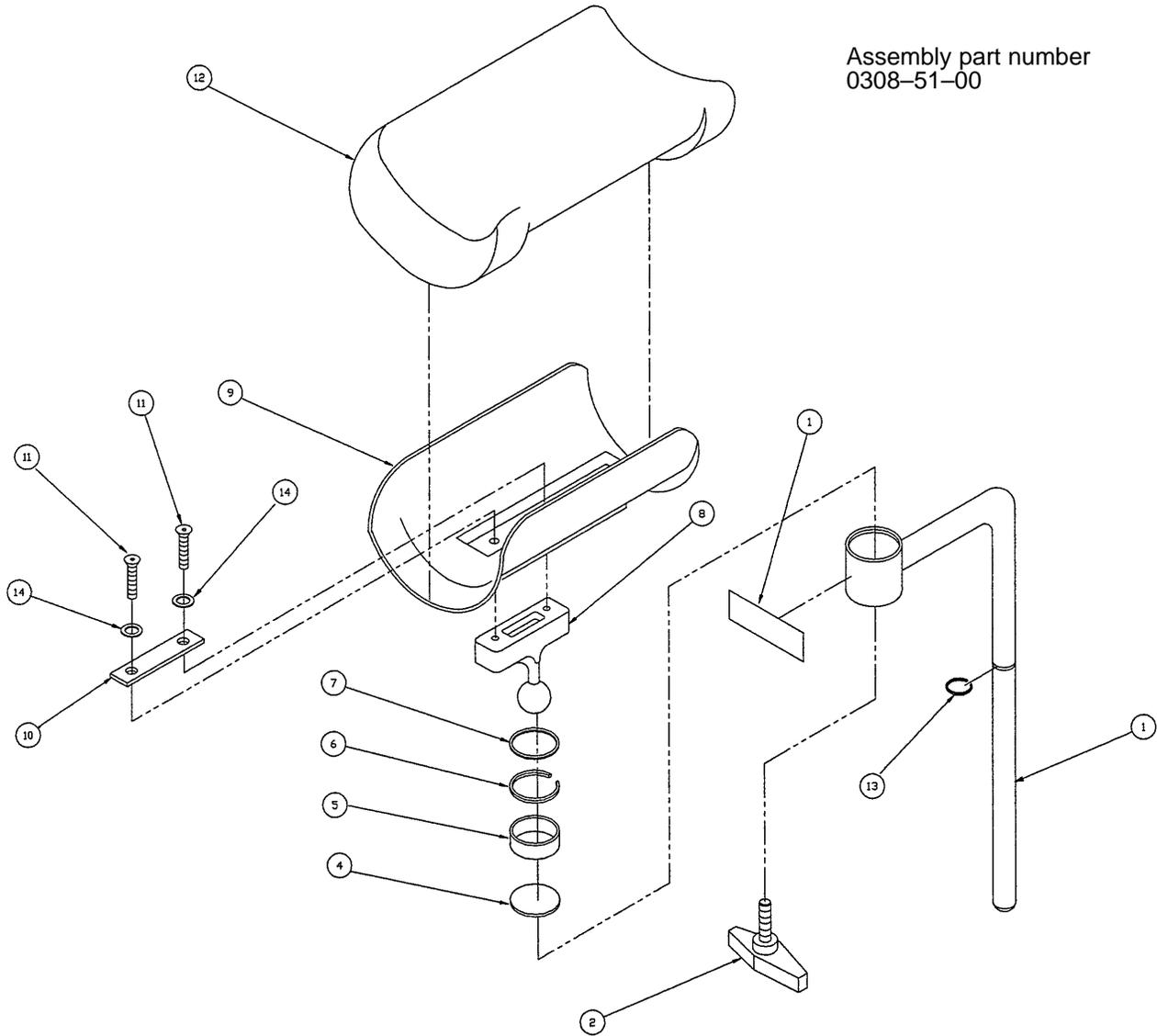
Assembly part number  
0590-61-00



Item	Part No.	Part Name	Qty.
1	0590-65-00	Torsion Spring	1
2	3978-33-00	Roll Pin	2
3	0590-63-00	Foot Pan Latch Base	1
4	0590-64-00	Roll Pin	1
5	0590-62-00	Foot Pan Latch Pin	1

# Leg Support Assembly

Assembly part number  
0308-51-00



Item	Part No.	Part Name	Qty.
1	0308-49-00	Leg Support Bar	1
2	1141-03-00	T-Knob Assembly	1
3	0591-17-00	Leg Supt. Warning Label	1
4	1269-00-00	Leg Supt. Pressure Disc	1
5	1267-00-00	Leg Supt. Jaw	1
6	1268-00-00	Split Ring	1
7	0020-08-00	Spiral Retaining Ring	1
8	1262-00-00	Ball Post	1
9	0590-69-00	Leg Rest	1
10	1264-00-00	Leg Supt. Mtg. Plate	1
11	0022-41-00	Flat Hd. Soc. Screw	2
12	0590-74-00	Short Leg Rest Ass'y	1
13	0612-48-00	Wire Ring	1
14	0025-09-00	Int. Tooth Lock Washer	2

# Warranty

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## Limited Warranty:

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

This statement constitutes Stryker Adel's entire warranty with respect to the aforesaid equipment. STRYKER ADEL 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 ADEL BE LIABLE HEREUNDER FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING FROM OR IN ANY MANNER RELATED TO SALES OR USE OF ANY SUCH EQUIPMENT.

## To Obtain Parts and Service:

Stryker Adel products are supported by a nationwide network of dedicated Stryker Adel 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 Adel Customer Service at (800) 327-0770.

## Supplemental Warranty Coverage:

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

### **Extended (Parts and Labor)**

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

### **Standard (Labor Only):**

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

### **Basic (Parts Only):**

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

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

# Warranty

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## **Return Authorization:**

Merchandise cannot be returned without approval from the Stryker Adel Customer Service Department. An authorization number will be provided which must be printed on the returned merchandise. Stryker Adel 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 Adel 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 Adel 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.



6300 Sprinkle Road, Kalamazoo, MI 49001-9799

(800) 327-0770

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