Power Lift & Recline Chair and Power Recline Only Chair

Service Guide





Comfort That's Patented™



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About the Lift Chair Service Guide

This service guide provides you with the information necessary to repair the UltraComfort 3-position, 2-position, and Stellar recline lift chairs. The troubleshooting scenarios in this manual consist of procedures that enable you to systematically trace and correct faults in the system, replacement procedures, and exploded views of available parts. Most replacement instructions apply to all the lift chairs in this service manual, but some of them are specific to individual chairs.

Before troubleshooting, check the following:

- Make sure that the lift chair is plugged into a working wall outlet.
- Check the wall outlet circuit breaker.
- Visually check terminals for corrosion.
- Check wires for missing insulation.
- Check connectors for unseated pins.
- Ensure LED lights are on. (Refer to "Trouble Shooting with Smart Tek®" on page 47), and page 81.

Information required prior to making a service call:

- Serial Number
- Date of Purchase
- Description of the problem with the lift chair

Lift Chair Components

Lift chairs are powered by 24V DC transformers that plug into standard wall outlets and operate on standard 120V AC electricity. The lift chair control system is made up of the following components:

Motor(s)

- Transformer
- Battery Backup Wire*
- Massage Unit*
- Control Unit*
 - Junction Box*

- Hand ControlExtension Wire
- Heat Unit*
- * Only on Selected Models

Component: Motor

Location: Between the lift frame and the seat. **Function:** Provides lift and recline.

Connections: Each motor is physically connected to the chair through the lift frame and the recline straps. Each motor is electrically connected to either a control unit or directly to the hand control.

Failure Signs: Chair will not lift and/or recline. Motor may become noisy just before failure. **Tests:** See "Trouble Shooting with *Smart Tek*®" on page 47, and page 81. **Expected Readings:** See "Trouble Shooting with *Smart Tek*®" on page 47, and page 81.

Serviceable: Must be replaced.

Component: Hand Control (Lift/Recline or Recline Only)
Location: On the arm of the chair.
Function: Provides user interface for lift/recline or recline only.
Connections: Connected to either the control unit or the motor.
Failure Signs: Chair will not lift and/or recline.
Tests: See "Trouble Shooting with Smart Tek®" on page 47, and page 81.
Expected Readings: See "Trouble Shooting with Smart Tek®" on page 47, and page 81.
Serviceable: Must be replaced.

Component: Extension Wire Location: Between the lift frame and the chair frame. **Function:** Provides connection from the hand control to the motor or control box. **Connections:** From the quick disconnect in the pocket to the motor or control box. Failure Signs: Chair will not lift/recline. Tests: Test continuity. Expected Readings: Open Circuit Serviceable: Must be replaced.

Component: Transformer Location: Next to chair.

WARNING Do not place the transformer under the lift chair. **Function:** Converts AC to DC. Also provides power during a power failure. Note: Power during a power failure only applies to the lift/recline or recline only functions. Connections: Wall outlet and either control box or motor. Failure Signs: Chair will not operate. **Tests:** Test for voltage at connection to chair. Expected Readings: Approximately 27VDC. Serviceable: Must be replaced. **Component:** Control Box (500-lb. chair only) Location: On the lift frame. Function: Provides connectivity for motors, hand control, and transformer. **Connections:** Connected to the motor(s), hand control, and POSITIVE transformer. Failure Signs: Chair will not lift and/or recline. Clicking noise. Motors out of sync. \bigcirc Di Tests: DC Voltage

Expected Readings: 27 - 32 VDC. See figure 1. Serviceable: Must be replaced.

Component: Heat Pad Location: Lower back. Function: Provides heat. Connections: Connected to the control box. Failure Signs: No heat. Tests: Resistance. **Expected Readings:** Approximately, 40 ohms across the two connector pins. Serviceable: Must be replaced.

Component: Massage Unit Location: On the seatback or the seat. **Function:** Vibrates to provide massage. **Connections:** Connected to the junction box. Failure Signs: Massage will not work when selected. **Tests:** Check for DC voltage Expected Readings: Approximately 13.8 DC Volts. Approximately, 25 ohms across the two connector pins. Serviceable: Must be replaced.

Figure 1. Control Box

NEGATIVE

Component: Hand Control (Heat/Massage)

Location: On the arm of the chair.

Function: Provides user interface for heat/massage.

Note: Model UC480 uses the "All in one" hand control, which controls heat, massage, and lift/recline.

Connections: Connected to the control box.

Failure Signs: Heat/Massage will not work.

Note: Model UC480, Chair will not lift and/or recline or Heat/Massage will not work.

Tests: See "Hand Controls" on pages 79-80. For a more complete guide, refer to manufacturer's owner's manual.

Expected Readings: See "Hand Controls" on pages 79-80. For a more complete guide, refer to manufacturer's owner's manual.

Serviceable: Must be replaced.

Battery Back Up System

1. Batteries should be replaced after one use.

2. Batteries should be changed yearly.

For a complete explanation of the battery back up system, refer to the UltraComfort owner's manual.

General Trouble Shooting

Problem: 1

Chair is in the lift position and will not descend, or chair is in the recline position and will not lift.

Solution:

If the chair is stuck in the lift position, press the down button; if the chair is stuck in the recline position, press the up button. While pressing the appropriate button, listen to hear if the motor is running.

Ensure LED lights are on. (Refer to "Trouble Shooting with Smart Tek®" on page 47), and page 81.

Problem 2

If you don't hear the motor running, follow these steps.

- A) Check to see if the chair is securely plugged in.
- B) See if the outlet is activated by a wall switch.

C) Try plugging the chair into a different outlet. (Sometimes the socket is worn and will not handle the amps needed for operation.)

D) Check wiring on both power cord for motor and switch cord for breakage or fraying.

E) Plug the new hand control into motor or into extension and try for chair response.

If still no response, see "Trouble Shooting with Smart Tek®" on page 47), and page 81.

Problem 3

If you hear the motor running, but the chair won't move or partially moves, check for the following: A) Inspect lift frame for possible breakage.

- B) Inspect push tube or gear casing for breakage.
- C) Gears may be stripped inside the motor assembly.
- D) Push tube may be stripped or the fork head may be broken.

Tools Required:

The following tools are needed to service *UltraComfort* power lift and power recline chairs.

- # 8, 9 or 10 flat head screw driver
- P2 & P3 Phillips head screw driver
- T30 torx bit
- Wired or wireless drill

Note: Driver bits can be used to speed up the repair process.

If servicing a lift chair with the StellarComfort mechanism, you will also need:

- 7/16 & 3/8 ratchet wrench
- Chair stand
- Spare hair pins
- Zip ties
- 7/16 box head wrench
- 3/8 box head wrench
- 1/2 box head wrench
- Needle nose pliers

- Volt meter
- Clippers or scissors
- Retracto knife
- Spare rags
- Large vice grip
- White lithium grease or Zep 2000

• 5/32 Allen wrench

Models Quick Reference

Model	Series	Size	Lift Frame	Recline Bar	Motors	Transformer	Hand Control	Recline Mech.
UC342	Explorer	Medium	LM5100	RB5100-M-1	GM1410-LM	GM2102-TR-PK	HV4200- HC	RM631L/R
UC114-MED	Explorer	Medium	LM5100	RB5100-M-1	GM1410-LM	GM1410-TR	ZKUC-20-1	RM631L/R
UC476-MED	Explorer	Medium	LM5120	RMKDMSB- KD	GM3100-LM GM3100-RM	GM1410-TR	ZK3200- UC	RM622L/R
UC212-MED	Leisure	Medium	LM5000C	RB4000-CB	GM1410-LM	GM2102-TR-PK	ZKUC-20-1	RM8300L/R
UC214-MED	Leisure	Medium	LM5000C	RB4000-CB	GM1410-LM	GM2102-TR-PK	ZKUC-20-1	RM8300L/R
UC332-MED	Leisure	Medium	LM5100	RB5100-M-1	GM1410-LM	GM2102-TR-PK	ZKUC-20-1	RM621L/R
UC332-LRG	Leisure	Large	LM5120	RB5100-L-1	GM1410-LM	GM2102-TR-PK	ZKUC-20-1	RM621L/R
UC542-JPT UC542-SMA	Montage	Petite	LM5100	RB5100-M-1	GM1410-LM	GM2102-TR-PK	ZKUC-20-1	RM621L/R
UC542-MED	Montage	Medium	LM5100	RB5100-M-1	GM1410-LM	GM2102-TR-PK	ZKUC-20-1	RM621L/R
UC542-LAR	Montage	Large	LM5120	RB5100-L-1	GM1410-LM	GM2102-TR-PK	ZKUC-20-1	RM621L/R
UC542-ME6	Montage	Medium Wide	LM6111	RB6111-1	GMOKI-28W	GM2102-TR-PK	ZKUC-20-1	RM621L/R
UC546-JPT	Montage	Petite	LM5124	RB5100-M-1	GM3000-LM GM3000-CM	GM1410-TR	ZK3000- C2P-UC	RM621L/R
UC546-M	Montage	Medium	LM5124	RB5100-M-1	GM3000-LM GM3000-CM	GM1410-TR	ZK3000- C2P-UC	RM621L/R
UC546-L	Montage	Large	LM5124	RB5100-M-1	GM3000-LM GM3000-CM	GM1410-TR	ZK3000- C2P-UC	RM621L/R
UC480-MLA	Tranquility	Medium Large	LM5120	RB5100-L-1	GM1410-LM	GM2102-TR-PK	ZKUC-20-1	RM621L/R
UC490-MLA	Tranquility	Medium Large	LM5124	RB5100-M-1	GM3000-LM GM300-CM	GM2102-TR-PK	ZK3000- C2P-UC	RM621L/R
UC482M	Tranquility	Medium	LM5120	RB5100-M-1	GM1410-LM	GM2102-TR-PK	ZKUC-20-1	RM621L/R
UC486-MLA	Tranquility	Medium Large	LM5120	RB5100-M-1	GM1410-LM GM0910	GM2102-TR-PK	ZK404-UC	RM621L/R
UC544-SMA	Tranquility	Small	LM992N	LM992N	GM1900	GM2102-TR-PK	ZKUC-20-1	LM992N
UC544-MED	Tranquility	Medium	LM992S	LM992S	GM1900	GM2102-TR-PK	ZKUC-20-1	LM992S
UC544-LAR	Tranquility	Large	LM992S	LM992S	GM1900	GM2102-TR-PK	ZKUC-20-1	LM992S

Models Quick Reference

Model	Series	Size	Lift Frame	Recline Bar	Motors	Transformer	Hand Control	Recline Mech.
UC550-JPT	Stellar	Petite	LM5100	RB753-2	GM1450-LM GM1450-RM	GM2102-TR-PK	ZKAD-5	RM622L/R
UC550-MED	Stellar	Medium	LM5100	RB5100-M-1	GM1450-LM GM1450-RM	GM2102-TR-PK	ZKAD-5	RM622L/R
UC550-LRG	Stellar	Large	LM5120	RB5100-L-1	GM1450-LM GM1450-RM	GM2102-TR-PK	ZKAD-5	RM622L/R
UC550-M26	Stellar	Medium Wide	LM6111	RB6111-1	GMOKI-28W GM1450-RM	GM2102-TR-PK	ZK756HCL	RM622L/R
UC570-JPT	Stellar Eclipse	Petite	LM5124	RB5100-M-1	GM1450-LM GM1450-RM GM1450-CM	GM2102-TR-PK	ZKAD-C3M	RM622L/R
UC570-MED	Stellar Eclipse	Medium	LM5124	RB5100-M-1	GM1450-LM GM1450-RM GM1450-CM	GM2102-TR-PK	ZKAD-C3M	RM622L/R
UC570-LRG	Stellar Eclipse	Large	LM5124	RB5100-L-1	GM1450-LM GM1450-RM GM1450-CM	GM2102-TR-PK	ZKAD-C3M	RM622L/R
UC556-MLA	Stellar	Medium Large	LM5120	RB5100-M-1	GM1450-LM GM1450-RM	GM2102-TR-PK	ZKAD-5	RM622L/R
UC520-MED	Stellar	Medium	LM5120	RB5100-M-1	GM1450-LM GM1450-RM	GM2102-TR-PK	ZKAD-5	RM622L/R
UC556-M	Stellar	Medium	LM5120	RB5100-M-1	GM1450-LM GM1450-RM	GM2102-TR-PK	ZKAD-5	RM622L/R
UC559-SMA	Stellar	Small	LM5100	RB753-2	GM1450-LM GM1450-RM	GM2102-TR-PK	ZKAD-5	RM622L/R
UC559-MED	Stellar	Medium	LM5100	RB5100-M-1	GM1450-LM GM1450-RM	GM2102-TR-PK	ZKAD-5	RM622L/R
UC559-LRG	Stellar	Large	LM5120	RB5100-L-1	GM1450-LM GM1450-RM	GM2102-TR-PK	ZKAD-5	RM622L/R
UC559-M26	Stellar	Medium Wide	LM6111	RB6111-1	GMOKI-28W GM1450-RM	GM2102-TR-PK	ZK756HCL	RM622L/R
UC680-MED	Stellar	Medium	LM5120	RB5100-M-1	GM1450-LM GM1450-RM GM0910	GM2102-TR-PK	ZKAD-HR-1	RM622L/R
UC682-MED-DSB	Stellar	Medium	LM5120	RB5100-M-1	GM1450-LM GM1450-RM	GM2102-TR-PK	ZK3200-UC	RM622L/R
UC792-MED	Stellar	Medium	LM5120	RB5100-M-1	GM1450-LM GM1450-RM	GM2102-TR-PK	ZKAD-5	RM622L/R
UC794-MED	Stellar	Medium	LM5120	RB5100-M-1	GM1450-LM GM1450-RM	GM2102-TR-PK	ZKAD-5	RM622L/R
UC798-MLA	Stellar	Medium Large	LM5120	RB5100-M-1	GM1450-LM GM1450-RM	GM2102-TR-PK	ZKAD-5	RM622L/R
UC799-MLA	Stellar Eclipse	Medium Large	LM5124	RB5100-M-1	GM3100-LM GM3100-RM GM3100-CM	GM2102-TR-PK	ZK3100-C5M- UC	RM622L/R
UC562-MLA	Stellar	Medium Large	LM5124	RB5100-M-1	GM3100-LM GM3100-RM GM3100-CM	GM2102-TR-PK	ZK3100-C5M- UC	RM622L/R
UC558-MLA	Stellar Eclipse	Medium Large	LM5124	RB5100-M-1	GM1450-LM GM1450-RM GM1450-CM	GM2102-TR-PK	ZKAD-C3M	RM622L/R

Replacement Instructions

Smart Tek® Hand Control Replacement Tools Needed: None

WARNING Unplug the transformer from the wall outlet.

2. Reach down into the pocket until you feel the disconnect latch on the extension cable.

3. Pull back on the disconnect latch.

1.

4. Put one hand on the back of the extension wire plug base and one on the hand control plug base and pull the two pieces apart.

5. Plug in the new Smart Tek® hand control to the extension cable.

6. Push forward on the disconnect latch. Make sure it engages fully with the hand control plug base.

7. Plug the transformer into the wall outlet and test the hand control.

Hand Control Extension Replacement

Tools Needed: Phillips head screwdriver, wire cutter, staple remover, stapler, zip ties, and a chair stand.

1. WARNING Unplug the transformer from the wall outlet.

2. Reach down into the chair's side pocket until you feel the

disconnect latch on the hand control extension.

3. Pull back on the disconnecting latch.

4. Put one hand on the back of the extension wire plug base and one on the hand control plug base and pull the two pieces apart.

5. Gently push the chair over onto the footrest, turn it upside down or, gently push it over onto its side, opposite of the hand control.

6. Use a Phillips screwdriver to remove the wire clamp used to secure the extension cable to the bottom of the armrests. Make sure screw.

7. Remove a few staples on the arm assembly to allow the extension wire to be pulled out through the fabric pocket.

8. Pull the extension cable through the fabric pocket.

9. Locate the zip ties that hold the extension wire to the lift frame. Note their location.

- 10. Cut these ties.
- 11. Unplug the extension cable from the motor or control box on the 500 lb. chair.
- 12. Plug the new extension cable into the motor or control box on the 500 lb. chair.
- 13. Secure it to the lift frame with zip ties. Use the same locations as the old extension cable.
- 14. Insert the extension cable into the fabric pocket.
- 15. Reinstall the staples that were removed in step 8.
- 16. Reinstall the wire clamp.
- 17. Turn the chair back over onto its legs.
- 18. Plug in the Smart Tek® hand control to the extension cable.

19. Push forward on the disconnecting latch. Make sure it engages fully with the hand control plug base.

20. Clip the Smart Tek® hand control to the black plastic hook on the side of the chair arm.

21. Plug the transformer back into the wall outlet and test.



Hand Control

Back Assembly Replacement (500-lb. and 3-position) Tools needed: 7/16 inch socket wrench

1. Press the Down Button on the hand control until the footrest is about parallel to the floor.

2.

outlet.

WARNING Unplug the transformer from the wall

3. Using the 7/16 inch socket wrench, remove the two (2) flange lock nuts located on both sides of the back.

4. Pull the back flap away from the Velcro.

5. Work the back assembly out one side at a time pulling the threaded studs out of the scissor mechanisms.

6. Install new back.

Control Box Replacement (500-lb. only)

Tools needed: wire cutters, replacement zip ties, and a chair sta



WARNING Unplug the transformer from the wall outlet.

1. 2. Gently push the chair over onto the footrest, turn it upside down or, gently push it over onto its side, opposite of the hand control. 3. Unplug the motor(s), hand control extension, and battery backup from the control box.

4. Cut the wire ties that fasten the control box to the lift frame and remove it.

5. Use wire ties to fasten a new control box onto the lift frame.

6. Plug the motor(s), hand control extension, and battery backup into the new control box.

7. Gently turn the chair back over.

8. Plug the transformer into the wall outlet and test.

Lift Motor Replacement

Tools needed: needle nose pliers, zip ties, and a chair stand.

WARNING Unplug the transformer from the wall ou 1.

2. Gently push the chair over onto the footrest, turn it upside down or, gently push it over onto its side, opposite of the hand control.

3. Unplug the motor(s). For (540M-26, 542M-26, 542-ME6, 550-M26), unplug the motor(s) from the control box.

4. Remove the hitch pin and the clevis pin that fastens the bottom of the motor(s) to the lift frame. 5. Remove the hitch pin, the clevis pin, washers,

and spacers that fasten the top of the motor(s) to the recline straps.

6. Use the hitch pin and clevis pin to fasten the bottom of the new motor to the lift frame.

7. Use the hitch pin, clevis pin, washers, and spacers to fasten the top of the lift motor to the recline straps.

8. Connect the new motor(s). For (540M-26, 542M-26, 542-ME6, 550-M26), connect to the control box.



To Hand



9. Turn the chair over onto the lift frame.

10. Plug the transformer into the wall outlet and test.

Lift Frame Replacement

Tools needed: Needle nose pliers, T30 Torx screw bit, wire cutters, replacement zip ties, and a chair stand.

1. Unplug the transformer from the wall

outlet.

2. Gently push the chair over onto the footrest, turn it upside down or, gently push it over onto its side, opposite of the hand control.

3. Unplug the motor(s), hand control extension, and battery backup from the control box.

4. Cut the wire ties that fasten the control box to the lift frame and remove it (500-lb. only.)

5. Remove the four (4) T30 lag screws, eight (8) on models (540M-26, 542M-26, 542-ME6, 550-M26) that hold the lift frame to the arm assembly.

6. Cut the wire ties that hold the hand control extension wire

to the frame and place the wire to the side.

7. Remove the hitch pin(s), clevis pin(s), and

washers that fasten the recline strap(s) to the recline bar.

8. Lift the lift frame out of the chair shell.



Note: When installing the new lift frame the footboard must be completely closed when you fasten the lift frame to the armrest assembly or the footboard will not close properly.

9. Cut the wire ties that fasten the motor cables to the lift frame.

10. Remove the hitch pin(s) and the clevis pin(s) that fasten the bottom of the motor(s) to the lift frame.

11. Remove the hitch pin(s), the clevis pin(s), spacers, and washers that fasten the recline straps (s) to the lift frame.

12. Use the hitch pin(s), the clevis pin(s), spacers, and washers to fasten the recline strap(s) to the new lift frame.

13. Use the hitch pin(s) and the clevis pin(s) to fasten the bottom of the motor(s) to the new lift frame.

14. Place the new lift frame onto the chair shell.

15. Use the hitch pin(s), the clevis pin(s), and the washers to fasten the recline strap(s) to the recline bar.

16. Use the four (4) T30 lag screws, eight (8) on models (540M-26, 542M-26, 542-ME6, 550-M26) to fasten the lift frame to the arm assembly.

- 17. Use two wire ties to fasten the hand control extension to the lift frame.
- 18. Use wire ties to fasten the control box (500-lb. only) to the lift frame.
- 19. Plug the motor(s), hand control extension, and battery backup into the control box.
- 20. Gently push the chair back over.
- 21. Plug the transformer into a wall outlet and test.

Arm Assembly Replacement

Tools needed: Needle nose pliers, P2 Phillips screwdriver, T30 screw bit, wire cutters, zip ties, 3/8 inch socket, a stool or stand for placing the chair upside down.

WARNING Unplug the transformer from the wall outlet.

2. Reach down into the chair's side pocket until you feel the disconnect latch on the hand control extension.

3. Pull back on the disconnecting latch.

4. Put one hand on the back of the extension wire plug base and one on the hand control plug base and pull the two pieces apart.

5. Gently push the chair over onto the footrest, turn it upside down or, gently push it over onto its side, opposite of the hand control.

6. Use a Phillips screwdriver to remove the wire clamp used to secure the extension cable to the bottom of the armrests. Make sure you save the clamp and screw.

7. Remove a few staples on the arm assembly to allow the extension wire to be pulled out through the fabric pocket.

8. Pull the extension cable through the fabric pocket.

9. Remove the four (4) T30 lag screws, eight (8) on

models (540M-26, 542M-26, 542-ME6, 550-M26) that hold the lift frame to the arm assembly.

10. Remove the hitch pin(s), clevis pin(s), and washers that fasten the recline strap(s) to the recline bar.

11. Lift the lift frame out of the chair shell and place it off to the side.

12. Use the 3/8 inch socket to remove the two (2) bolts that fa arm assembly.



1.

WARNING While this next step can be done alone, it does require extra attention. You must remove the arm assembly without twisting the frame. Excessive twisting will cause the board holding the arms together to snap.

13. Stand behind the chair and pull the arms away from the chair being careful not to get the material snagged in the scissor mechanisms.

14. Place the arm assembly to the side.

15. Place the new arm assembly in place so that the bolt holes in the scissor mechanisms line up with the bolt holes in the armrest.

16. Install the two (2) bolts that fasten each scissor mechanisms to the new arm assembly.

17. Make sure the footboard is completely closed.

Note: When installing the lift frame the footboard must be completely closed when you fasten the lift frame to the armrest assembly or the footboard will not close properly.

18. Place the lift frame onto the chair shell.

19. Use the hitch pin(s), clevis pin(s), and washers to fasten the recline strap(s) to the recline bar. 20. Use the four (4) T30 lag screws, eight (8) on models (540M-26, 542M-26, 542-ME6, 550-M26)

to fasten the lift frame to the arm assembly.

21. Reinstall the staples that were removed in step 8.

- 22. Reinstall the wire clamp.
- 23. Gently turn the chair back over onto its legs.
- 24. Plug in the Smart Tek® hand control to the extension cable.

25. Push forward on the disconnecting latch. Make sure it engages fully with the hand control plug base.

26. Clip the Smart Tek® hand control to the black plastic hook on the side of the chair arm.

27. Plug the transformer back into the wall outlet and test.

Scissor Mechanism Replacement

1.

Tools needed: Needle nose pliers, P2 Phillips screwdriver, T30 screw bit, wire cutters, zip ties, 3/8 inch socket, a stool or stand for placing the chair upside down.

WARNING Unplug the transformer from the wall outlet.

2. Reach down into the chair's side pocket until you feel the disconnect latch on the hand control extension.

3. Pull back on the disconnecting latch.

4. Put one hand on the back of the extension wire plug base and one on the hand control plug base and pull the two pieces apart.

5. Gently push the chair over onto the footrest, turn it upside down or,

gently push it over onto its side, opposite of the hand control.

6. Unplug the transformer and the hand control extension from the motor or control box.

7. Remove the four (4) T30 lag screws, eight (8) on models (540M-26, 542M-26, 542-ME6, 550-M26) that hold the lift frame to the arm assembly.

8. Remove the hitch pin(s), clevis pin(s), and washers that fasten the recline strap(s) to the recline bar.

9. Remove the hand control extension wire clamp.

10. Lift the lift frame out of the chair shell and place it off to the side.

11. Use the 3/8 inch socket to remove the two (2) bolts that fasten each scissor mechanism to the arm assembly.



WARNING While this next step can be done alone, it does require extra attention. You must remove the arm assembly without twisting the frame. Excessive twisting will cause the board holding the arms together to snap.

12. Stand behind the chair and pull the arms away from the chair being careful not to get the material snagged in the scissor mechanisms.

13. Place the arm assembly to the side.

14. Remove the two (2) bolts and Phillips screws that fasten the scissor mechanism to the footboard.

15. Use the 3/8 inch socket to remove the bolts that fasten the scissor mechanism to the seat.

16. Use the 3/8 inch socket to install the bolts that fasten the new scissor mechanism to the seat.

17. Install the two (2) bolts and Phillips screws that fasten the new scissor mechanism to the footboard.

18. Place the arm assembly in place so that the bolt holes in the scissor mechanisms line up with the bolt holes in the armrest.

19. Install the two (2) bolts that fasten each scissor mechanisms to the arm assembly.

20. Make sure the footboard is completely closed.

Note: When installing the lift frame the footboard must be completely closed when you fasten the lift frame to the armrest assembly or the footboard will not close properly.

21. Place the lift frame onto the chair shell.

- 22. Use the hitch pin(s), clevis pin(s), and washers to fasten the recline strap(s) to the recline bar.
- 23. Use the four (4) T30 lag screws, eight (8) on models (540M-26, 542M-26, 542-ME6, 550-M26)

to fasten the lift frame to the arm assembly.

- 24. Reinstall the hand control extension wire clamp.
- 25. Plug the transformer and hand control extension into the motor or control box.
- 26. Plug the transformer back into the wall outlet and test.
- 27. Reinstall the seatback if removed.

Recline Bar Replacement

1.

Tools needed: Needle nose pliers, P2 Phillips screwdriver, T30 screw bit, wire cutters, zip ties, 3/8 inch socket, a stool or stand for placing the chair upside down.

WARNING Unplug the transformer from the wall outlet.

2. Reach down into the chair's side pocket until you feel the disconnect latch on the hand control extension.

3. Pull back on the disconnecting latch.

4. Put one hand on the back of the extension wire plug base and one on the hand control plug base and pull the two pieces apart.

5. Gently push the chair over onto the footrest, turn it upside down or, gently push it over onto its side, opposite of the hand control.

6. Remove the four (4) T30 lag screws, eight (8) on models (540M-26, 542M-26, 542-ME6, 550-M26) that hold the lift frame to the arm assembly.

7. Remove the hitch pin(s), clevis pin(s), and washers that fasten the recline strap(s) to the recline bar.

8. Remove the hand control extension wire clamp.

9. Lift the lift frame out of the chair shell and place it off to the side.

10. Use the 3/8 inch socket to remove the two (2) bolts that fasten each scissor mechanism to the arm assembly.

WARNING While this next step can be done alone, it does require extra attention. You must remove the arm assembly without twisting the frame. Excessive twisting will cause the board holding the arms together to snap.

11. Stand behind the chair and pull the arms away from the chair being careful not to get the material snagged in the scissor mechanisms.

12. Place the arm assembly to the side.

13. Use the 1/2 inch socket to remove the bolts that fasten the recline bar to the seat. *Note the position of the recline bar, so you do not install the new bar in upside down.*

14. Use the 1/2 inch socket to install the bolts that fasten the new recline bar to the seat.

15. Place the arm assembly in place so that the bolt holes in the scissor mechanisms line up with the bolt holes in the armrest.

16. Install the two (2) bolts that fasten each scissor mechanisms to the arm assembly.

17. Make sure the footboard is completely closed.

Note: When installing the lift frame the footboard must be completely closed when you fasten the lift frame to the armrest assembly or the footboard will not close properly.



Note: Seat bar on StellarComfort models only.

- 18. Place the lift frame onto the chair shell.
- 19. Use the hitch pin(s), clevis pin(s), and washers to fasten the recline strap(s) to the recline bar.

20. Use the four (4) T30 lag screws, eight (8) on models (540M-26, 542M-26, 542-ME6, 550-M26) to fasten the lift frame to the arm assembly.

- 21. Reinstall the hand control extension wire clamp.
- 22. Plug the transformer back into the wall outlet and test.

Seat Assembly Replacement

Tools needed: Needle nose pliers, P2 Phillips screwdriver, T30 screw bit, wire cutters, zip ties, 3/8 inch socket, a stool or stand for placing the chair upside down.

1. WARNING Unplug the transformer from the wall outlet.

2. Reach down into the chair's side pocket until you feel the disconnect latch on the hand control extension.

3. Pull back on the disconnecting latch.

4. Put one hand on the back of the extension wire plug base and one on the hand control plug base and pull the two pieces apart.

5. Gently push the chair over onto the footrest, turn it upside down or, gently push it over onto its side, opposite of the hand control. You can also remove the seat back.

6. Remove the four (4) T30 lag screws, eight (8) on models (540M-26, 542M-26, 542-ME6,

550-M26) that hold the lift frame to the arm assembly.

7. Remove the hitch pin(s), clevis pin(s), and washers that fasten the recline strap(s) to the recline bar.

8. Remove the hand control extension wire clamp.

9. Lift the lift frame out of the chair shell and place it off to the side.

10. Use the 3/8 inch socket to remove the two (2) bolts

that fastens each scissor mechanism to the arm assembly.

WARNING While this next step can be done alone, it does require extra attention. You must remove the arm assembly without twisting the frame. Excessive twisting will cause the board holding the arms together to snap.

11. Stand behind the chair and pull the arms away from the chair being careful not to get the material snagged in the scissor mec

12. Place the arm assembly to the side.

13. Remove the two (2) bolts and Phillips screws that fasten the scissor mechanism to the

footboard.

14. Use the 3/8 inch socket to remove the bolts that fasten the scissor mechanism to the seat.

15. Use the 3/8 inch socket to install the bolts that fasten the scissor mechanism to the new seat. 16. Install the two (2) bolts and Phillips screws that fasten the new scissor mechanism to the

footboard.

17. Place the arm assembly in place so that the bolt holes in the scissor mechanisms line up with the bolt holes in the armrest.

18. Install the two (2) bolts that fasten each scissor mechanisms to the arm assembly.

19. Make sure the footboard is completely closed.

Note: When installing the lift frame the footboard must be completely closed when you fasten the lift frame to the armrest assembly or the footboard will not close properly.

20. Place the lift frame onto the chair shell.



Lift Frame

20. Place the lift frame onto the chair shell.

21. Use the hitch pin(s), clevis pin(s), and washers to fasten the recline strap(s) to the lift frame.

22. Use the four (4) T30 lag screws, eight (8) on models (501M26, 501L26, 501T28, 550-M26) to fasten the lift frame to the arm assembly.

23. Reinstall the hand control wire clamp.

24. Plug the transformer back into the wall outlet and test.

Recline Straps

Tools needed: Needle nose pliers, zip ties, and a chair stand.

1. WARNING Unplug the transformer from the wall outlet.

2. Gently push the chair over onto the footrest, turn it upside down or, gently push it over onto its side, opposite of the hand control.

3. Remove the hitch pin(s), clevis pin(s), and washers that fasten the top of the motor(s) to the recline straps.

4. Remove the hitch pin(s), clevis pin(s), and washers that fasten the recline straps to the lift frame.5. Remove the hitch pin(s), clevis pin(s), and washers that fasten the recline straps to the recline bar.

6. Use the hitch pin(s), clevis pin(s), and washers to fasten the new recline straps to the recline bar.

7. Use the hitch pin(s), clevis pin(s), and washers to fasten the new recline straps to the lift frame.
8. Use hitch pin(s), clevis pin(s), washers, and spacers to fasten the top of the motor to the new recline straps.

9. Turn the chair over onto the lift frame.

10. Plug the transformer into the wall outlet and test.

11. Reinstall the seatback (if removed).



Fork Head Replacement Part Number: GMOKI-13 Tools needed: Needle nose pliers, vise-grips, screwdriver, and a cloth.











This is the fork head.

The fork head is screwed into the push tube of the motor.

If you've ever heard the saying "Lefty-Loosey/Righty-Tighty" for removing and tightening bolts, now think the opposite.

The fork head is screwed into the push tube lefty-tighty/ righty-loosey, **but** the push tube is also screwed into the motor lefty-tighty/righty-loosey.

Once the motor is removed from the chair, the push tube can be spun in the clockwise direction until it comes completely out of the motor as shown.

If you completely remove the push tube, to properly line it back up for the installation in the chair, tighten the push tube all the way in, then back it off 2 full turns and then just enough to get it attached to the motor straps with the clevis pin.

To change just the fork head you want to grab hold of the push tube with a pair of vise-grips. **Use a cloth to protect the tube** to prevent the whole tube from spinning when you try to loosen the fork head.

To loosen, turn the plastic fork head clockwise.

If enough of the broken fork tube is still there you can put a large screwdriver through the holes to get leverage to spin it off. If not you'll need another pair of vise-grips or pliers to break it loose.

Again...lefty-tighty/righty-loosey.

Spacer Bar Replacement (See StellarComfort diagram on page 50.) **Tools needed:** Needle nose pliers, 7/16" wrench (qty.2)



This is what a spacer bar looks like.

The spacer bar is located at the rear of the chair across the top of the seat. The back is attached to the ends of the spacer bar.



To replace the spacer bar, you will need to remove the back from the chair.

With the chair plugged in, use the hand control to recline the back to make it easier to get to the nuts you will need to remove.





There are 3 nuts on each side of the back that you will need to remove. Place a wrench on the head of each bolt to hold it in place as you remove the nuts.





Remove the bow-tie clip and slide the pin out.



Allow the motor shaft to rest on the floor.



Now that you have the 6 nuts removed, the motor is no longer attached; you can remove the back by working the bolts out of the holes on each side of the spacer bar and pushing the back forward onto the seat.



The spacer bar is located across the top of the rear of the seat.

You can let the back rest on the seat as you continue to work.







Grab hold of the end piece of the spacer bar and rotate it up out of you way so your can get to the bolts that attach the spacer bar to the rear of the scissor mechanism.

There are 2 bolts with nuts that attach the spacer bar to each side of the scissor mechanism.

Once the total of 4 bolts, 2 from each side, is removed, you can install the new spacer bar and begin installing the back.

Head Rest Motor Replacement (Model: UC680, UC682) Head Rest Motor P/N: GM0900

Tools needed: Needle nose pliers, cutters



Step1

Insert the base of the clevis mount at the base of the motor in between the clevis bracket on the back bar insert a $3/8 \times 15/8$, part no. BB5512 clevis pin thru the clevis mount and clevis bracket, lock pin in place with a locking hair pin, part no. BB5514.

Step2

Insert the motor tip into the cup on the head rest cross bracket line up the holes in the cup and motor tip insert a 3/8 x 1 5/8 clevis pin, part no. BB5512 thru the holes and secure the clevis pin with a locking hair pin, part no. BB5514.



Step 3

Run the coil cord coming out of the motor up between the back bar and the bottom of the wooden back frame secure the cord using a black 8 inch zip tie.



Step 4

Plug the cord from the motor into the hand control extension cable attached to the rear motor mount bar of the metal frame.

Head Pillow Replacement (Model: UC680, UC682) Tools needed: Drill equipped with a 3/8 inch drive bit.



Step 1

Press the head up arrow on the hand control until the head rest brackets are completely raised up and exposed above the top of the inside back upholstery.





Step 2

Line up the four holes in the head rest bracket with the four T-Nut holes on the back of the head pillow, secure the head pillow to the bracket using a 3/8 inch drive bit and four 1/4-20 x 1 inch whiz lock bolts part number MS10WL-BO.



Scissor Mechanism Parts

Component	Description
RM621L & RM621R	Recline Mech 3 Way Left and Right Side Sit
RM622L & RM622R	Recliner Mech HD Maxi Left and Right Side Sit
RM8300L & RM8300R	Recliner Mech 2 Way Left and Right Side Sit
RM620L & RM620R	Recline Mech Maxi Comfort Left and Right Side Sit
RM631I & RM631R	342 Recline Mech Left & Right Side

We do recommend both sides be replaced.



RM8300L & RM8300R





OKIN Lift Motor Comparison Old Style vs. New Style





3 WIRES COME OUT OF THE BACK OF THE MOTOR CASE



NEW LIFT MOTOR: OKIN MODEL #: 72276

1 WIRE COMES OUT OF THE BACK OF THE MOTOR CASE

THE HAND CONTROL PLUGS INTO THE TOP SIDE OF THE MOTOR CASE

THE WIRE PLUGS INTO THE TRANSFORMER

IN A 2 MOTOR CHAIR, THE RECLINE MOTOR PLUGS INTO THE SIDE OF THE LIFT MOTOR CASE

05/08/2013

Single Motor Electrical Diagram



* Current p/n.

REF #	PART NUMBER	DESCRIPTION	QTY.
*1	ZKUC-20-1	Hand Wand Standard 2 Button Ultra Comfort Line USB	1
1	ZKUC-20	Hand Wand, Standard 2 Button UltraComfort	1
2	ZK1100-EXT	Extension for Hand Control for ZK1100 2 Button System	1
3	GM1500-LM	Motor Chair Okin Maxi Lift Motor	1
*3	GM1410-LM	Chair Lift Motor 1410	1
*3	GM1400-LM	Chair Lift Motor Richmat	1
*4	GM2102-TR-PK	Chair Motor Transformer 2 Amp with US Plug Pack	1
4	GM2000-TR	Chair Motor Transformer 2000 Okin	1
4	GM1400-TR	Chair Transformer 1400 Richmat	1
5	GM1501-APUS-36	Transformer Cord	1

Smart Tek® System

Models: UC212, UC214, UC332M, UC332L, UC482MED, UC542-JPT, UC542-SMA, UC542-M, UC542-L, UC480, UC482M, UC774, UC790, UC992, UC342, UC114-MED **Note: UC114 uses transformer GM1410-TR.**

Note: UC992 is a single motor setup, but uses a special 992 motor not shown. Note: UC340 uses the hand control for HV4200 Series.

Single Motor Electrical Diagram with Headrest Motor



* Current p/n.

REF #	PART NUMBER	DESCRIPTION	QTY.
1	ZK1300-HC	Hand Wand, 4 Button Non Maxi	1
2	LCMHR-C53	Cable 53 inch 5 Pin Male and Motor at Y Female 7Pin Quick Release	1
*3	GM1410-LM	Chair Lift Motor 1410	1
3	GM1500-LM	Motor Chair Okin Maxi Lift Motor	1
*5	GM0910	Motor Headrest	1
5	GM0901	Motor Headrest Okin JLDQ14 Micro Drive	1
*6	GM2102-TR-PK	Chair Motor Transformer 2 Amp with US Plug Pack	1
6	GM2000-TR	Motor Chair Transformer	1
6	GM1501-APUS-36	Transformer Cord	1

Smart Tek® System Model: UC484-MED, UC486-MLA, UC808

Dual Motor Electrical Diagram



* Current p/n.

REF #	PART NUMBER	DESCRIPTION	QTY.
*1	ZKUC-20-1	Hand Wand Standard 2 Button Ultra Comfort Line USB	1
1	ZKUC-20	Hand Wand, Standard 2 Button UltraComfort	1
2	ZK1100-EXT	Extension for Hand Control for ZK1100 2 Button System	1
3	GMOKI-28W	Okin 26-28 Wide Motor	2
4	GMOKI-CB	Motor Chair Okin 26-28 Wide Control Box 4/2003	1
5	GM1502L	Motor Chair Battery Back Up Wire with LED	1
*6	GM2102-TR-PK	Chair Motor Transformer 2 Amp with US Plug Pack	1
6	GM2000-TR	Motor Chair Transformer	1
7	GM1501-APUS-36	Transformer Cord	1

Smart Tek® System Model: UC542-ME6

DUAL MOTOR - UC542-ME6





Control Box Close up View

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UC550-M26 Electrical Diagram



* Current p/n.

REF #	PART NUMBER	DESCRIPTION	QTY.
1	ZK756HCL	Hand Wand for Maxi Comfort LED	1
2	GM1502L– B	Motor Chair Battery Back Up Wire for GM1501-B with LED	1
3	GMOKI-28W	Okin 26-28 Wide Motor	2
*4	GM1450-RM	Chair Recline Motor 1450	1
4	GM756R	Motor Chair Okin Recline Motor	1
5	GMOKI-CB	Motor Chair Okin 26-28 Wide Control Box 4/2003	1
*6	GM2102-TR-PK	Chair Motor Transformer 2 Amp with US Plug Pack	1
6	GM2000-TR	Motor Chair Transformer	1
7	GM1501-APUS-36	Transformer Cord	1

Smart Tek® System Model: UC550-M26, UC559-M26

UC550-M26 Wire Routing



2 lift motor wires are bundled and zip-tied to the lift frame



UC550-M26 Wire Routing



1 zip-tie is used to attach the hand control wire to the left and right lift motor wires just to keep them neat

 Hand control wire runs over the top of the lift motors



The power wire for the slave motor (recline motor) isn't tied back anywhere. It runs across the top of the left lift motor.



The hand control extension wire runs along the top of the right lift motor and is loosely attached to the top square tubing of the lift frame with one black zip-tie

STELLAR MOTOR ELECTRICAL SETUP



* Current p/n.

REF #	PART NUMBER	DESCRIPTION	QTY.
*1	ZKAD-5	Hand Wand Faster AutoDrive Up and M Button	1
1	ZKAD-1	Hand Wand, AutoDrive for Lift Chairs	1
2	ZKAD-EXT	Hand Control Extension Wire for ZKAD-1	1
3	GM1500-LM	Motor Chair Okin Maxi Lift Motor	1
*3	GM1450-LM	Chair Lift Motor Richmat	1
4	GM2000-RM	Chair Motor Faster Recline	1
4	GM756R	Motor Chair Okin Recline Motor	1
*4	GM1450-RM	Chair Recline Motor 1450 Richmat	1
*5	GM2102-TR-PK	Chair Motor Transformer 2 Amp with US Plug Pack	1
5	GM2000-TR	Chair Motor Transformer 2000 Okin	1
5	GM1450-TR	Chair Transformer 1450 Richmat	1
6	GM1501-APUS-36	Transformer Plug 1501-A Standard USA 36 inches	1

Smart Tek® System Models: UC550-JPT, UC550-MED, UC550-LRG, UC556-SME, UC556-MLA, UC559-SMA, UC559-MED, UC559-LRG, UC520-M, UC682-MED-DSB, UC792-MED, UC556-M, UC794-MED, UC798-MLA

STELLAR MOTOR WITH HEAD REST MOTOR **ELECTRICAL SETUP**



REF #	PART NUMBER	DESCRIPTION	QTY.
*1	ZKAD-HR-1	Hand Wand Fast Auto Drive Head Rest Up and M Button	1
1	ZKAD-HR	Hand Wand Fast Auto Drive With Head Rest	1
2	LCMHR-C53	Cable 53 inch Two 5Pin Male Y Cable Female 7Pin	1
3	GM1500-LM	Motor Chair Okin Maxi Lift Motor	1
*3	GM1450-LM	Chair Lift Motor Richmat	1
4	GM2000-RM	Chair Motor Faster Recline	1
*4	GM1450-RM	Chair Recline Motor 1450 Richmat	1
*5	GM0910	Motor Headrest	1
5	GM0901	Okin Headrest Motor	1
*6	GM2102-TR-PK	Chair Motor Transformer 2 Amp with US Plug Pack	1
6	GM2000-TR	Chair Motor Transformer 2000	1
*6	GM1450-TR	Chair Transformer 1450 Richmat	1
7	GM1501-APUS-36	Transformer Plug 1501-A Standard USA 36 inches	1

Smart Tek® System Model: UC680-M , UC682-M 33



REF #	PART NUMBER	DESCRIPTION	QTY.
1	ZKAD-C3M	Hand Wand Auto Drive Cradle 3 Motor Up and M	1
2	ZKAD-EXT	Extension Cord for ZKAD-1	1
3	GMC3M-CB	Control Box Cradle 3 Motor Auto Drive	1
4	GM2100-CB-EXT	Control Box Cradle Transformer 2100 Extension	1
*5	GM2102-TR-PK	Chair Motor Transformer 2 Amp with US Plug Pack	1
5	GM2100-TR	Chair Motor Cradle Transformer 3 Amp	1
6	GM1501-APUS-36	Transformer Plug 1501-A Standard USA 36 inches	1
7	GMC3M-3MEC	Control Box Extension C3M to Motor	1
8	GM1450-CM	Chair Lift Motor 1450 Cradle	1
*9	GM1450-LM	Chair Lift Motor Richmat	1
9	GM1450-C3M	Chair Lift Motor 1450-C3M	1
10	GM1450-RM	Chair Recline Motor 1450	1
11	GM0514-EXT-POL	Polarity Extension 514	1



REF #	PART NUMBER	DESCRIPTION	QTY.
1	ZK3000-C2P-UC	Hand Control (2 Button / 2 Position Cradle) - UC	1
2	GM3000-CB-EXT	Control Box Cradle Extension	1
3	GM3000-CB	Control Box Cradle	1
4	GMUSB-2-MF	Chair USB 2.0 Male to Female 6 Feet Recharging Cable	1
5	GM1410-TR	Chair Transformer 1410	1
6	GM1501-APUS-36	Transformer Plug 1501-A Standard USA 36 inches	1
7	GM3000-CM	Cradle Motor w/ Hall Sensor	1
8	GM3000-LM	Lift Motor w/ Hall Sensor	1

Smart Tek® System Model: UC546-JPT, UC546-M, UC546-L, UC490-MLA

AUTOLOUNGER MOTOR ELECTRICAL SETUP



REF #	PART NUMBER	DESCRIPTION	QTY.
1	ZKRO-1	Hand Wand AutoLounger Recline Only Chairs	1
2	ZKAD-EXT	Hand Control Extension Wire for ZKAD-1	1
3	GM1800-LA	Motor AutoLounger Lift 6.2 second drive	1
4	GM1800-RA	Motor AutoLounger Recline 8.8 Second Drive	1
5	GM1800-THD	Chair Transformer High Drive w/AC Cord non-Battery BU	1
6	GM1502-EXTLL	Motor chair Extension Wire Low Voltage Led Limoss	1

Smart Tek System Models: UC551-JPT, UC551-M, UC551-L, UC557, UC521
WALL HUGGER ELECTRICAL SETUP



* Current p/n.

REF #	PART NUMBER	DESCRIPTION	QTY.
*1	ZKUC-20-1	Hand Wand Standard 2 Button Ultra Comfort Line USB	1
1	ZKUC-20	Hand Wand Standard 2 Button Ultra Comfort Line	1
2	ZKUC-20-EXT	Extension for Hand Control for ZK1100 2 Button System	1
3	GM1900	Motor Wall Hugger 992	1
4	GM1502L-B	Motor Chair Battery Back Up Wire for GM1501-B with LED	1
*5	GM2102-TR-PK	Chair Motor Transformer 2 Amp with US Plug Pack	1
5	GM2000-TR	Chair Motor Transformer 2000	1
6	GM1501-APUS-36	Transformer Plug 1501-A Standard USA 36 inches	1

Smart Tek® System Model: UC544-SMA, UC544-MED, UC544-LAR

DRAFT - 4 Motor System Schematic



Item Description	Part Number
Lift Motor with Hall Sensor	GM3100-LM
Back Motor with Hall Sensor	GM3100-RM
Headrest Motor and Lumbar Motor Extension Cord	GM3100-HLM-EXT
Hand Control Extension Cord	ZK3100-EXT-1
Hand Control	ZK3200-UC
Control Box	GM3200-CB
Headrest Motor	GM3100-HR
Lumbar Motor	GM3100-C5M
Transformer	GM2102-TR-PK
Transformer	GM1450-TR

Smart Tek® System Model: UC682-MED, UC476-MED



Item Description	Golden Part Number
Lift Motor with Hall Sensor	GM3100-LM
Back Motor with Hall Sensor	GM3100-RM
Cradle Motor with Hall Sensor	GM3100-CM
Headrest Motor and Lumbar Motor Extension Cord	GM3100-HLM-EXT
Hand Control Extension Cord	ZK3100-EXT
Hand Control	ZK3100-C5M-UC
Control Box	GM3100-CB
Headrest Motor	GM3100-HR
Lumbar Motor	GM3100-C5M
Transformer	GM2102-TR-PK
Transformer	GM1450-TR

Smart Tek® System Model: UC562-MLA, UC799-MLA



REF #	PART NUMBER	DESCRIPTION	QTY.
1	HV3001-UC	Heat Massage Deluxe Hand Control UltraComfort Line	1
2	HV3002-2	Heat Massage Transformer Relaxor w/Wire	1
3	HV3003-18	Pad, Heat Massage Heating Relaxor 18"	1
4	HV3004	Heat Massage Seat 1 Vibrator M3M4	1
5	HV3004B	Heat Massage Back Set 3 Vibrators M2M1	1
6	HV3005	Heat Massage Control Box Harness Relaxor	1
N/A	HV3006	Heat Massage Harness Cap Gray	1
N/A	HV3008	Heat Massage Vibrator Rubber Pad 3000 Series	4

Models: UC332-M, UC332-L, *UC470-M, UC520-M, UC521-M, UC542-JPT, UC542-SMA, UC542-M, UC542-L, UC542-ME6, UC550-JPT, UC550-M, UC550-L, UC551-JPT, UC551-M, UC551-L, UC556-MLA, UC556-SME, UC557-M, *UC810

Note: Used in modified vibrator positions September 2014 – July 2015.

- 2 vibrators in back
- 2 vibrators in seat 1 left and 1 right for zones 2 and 3.
- * Heat and Massage N/A on the UC810.
- * UC470 only came with the GHV system.



REF #	PART NUMBER	DESCRIPTION	QTY.
1	HV3100-HC	Heat Massage Deluxe Hand Control Relaxor	1
2	HV3002-2	Heat Massage Transformer Relaxor w/Wire	1
3	HV3003-18	Pad, Heat Massage Heating Relaxor 18"	1
4	HV3100-VIB	Heat Massage Vibrator Set (Set of 4)	1
5	HV3100-JBOX	Heat Massage Control Box Harness Relaxor	1
N/A	HV3006	Heat Massage Harness Cap Gray	1
N/A	HV3008	Heat Massage Vibrator Rubber Pad (Single Pad) 3000 Series	4

Models: UC332-M, UC332-L, UC542-JPT, UC542-SMA, UC542-MED, UC542-L, UC542-ME6, UC550-JPT, UC550-M, UC550-L, UC556-SME, UC556-MLA, UC520-M, UC551-JPT, UC551-M, UC551-L, UC557, UC521-M, UC680, UC792, UC682-MLA, UC794-M, UC798-M,

Note: Cut-in July 2015



REF #	PART NUMBER	DESCRIPTION	QTY.
1	HV3200-UC	Hand Control UC for HV3200 Series	1
2	HV3200-JBOX	Junction Control Box for HV3200 Series	1
*3	HV3200-PAD-12	Heat Pad 18 inch for HV3200 Series	1
*3	HV3200-PAD-18	Heat Pad 12 inch for HV3200 Series	1
4	HV3200-TR	Heat Massage Transformer HV3200 Series	1
5	HV3200-VIB	Massage Motor Vibrator for HV3200 Series	4

Models: UC332-M, UC332-L, UC542-JPT, UC542-MED, UC542-L, UC542-ME6, UC550-JPT, UC550-M, UC550-L, UC556-SME, UC556-MLA, UC520-M, UC551-JPT, UC551-M, UC551-L, UC557, UC521-M, UC680, UC792, UC682-MLA, UC794-M, UC798-M UC559-SMA, UC559-MED, UC559-LRG, UC559-M26

Note: Cut-in October 2019



REF #	PART NUMBER	DESCRIPTION	QTY.
1	HV4200-HC	Hand Control for HV4200 Series	1
2	HV4200-VIB	Massage Motor Vibrator for HV4200 Series	2
3	HV4200-JBOX	Junction Control Box for HV4200 Series	1
4*	HV4200-PADS	Heat Pad Small for HV4200 Series (12 inch)	1
4*	HV4200-PADL	Heat Pad Large for HV4200 Series (18 inch)	1
5	GM2000-TR	Motor Chair Transformer	1
6	GM1501-APUS-36	Transformer Cord	1
7	GM1500LM	Motor Chair	1

Models: PL340, UC480, UC522, UC524

Note: One heating pad required for Item 4, two sizes available.

Note: Cut-in 4/24/15 with PL1504F2S06085



REF #	PART NUMBER	DESCRIPTION	QTY.
1	HV4101-HC	Hand Wand, Heat and Massage and Lift	1
2	HV4101-VIB	Massage Back	2
3	HV4101-PAD	Heat Unit	1
4	HV4101-JBOX	Junction Box	1
5	HV4101-EXT	Extension	1
6	GM1500-LM	Motor Chair Led Non Transformer	1
7	GM2000-TR	Motor Chair Transformer	1
8	GM1501-APUS-36	Transformer Cord	1

Model: UC480, PL340. PL470

Note: The above drawing is for units manufactured between May 2012 and April 2015.



REF #	PART NUMBER	DESCRIPTION	QTY.
1	HV4101-HC-NQR	Hand Wand, Heat and Massage and Lift	1
2	HV4101-VIB	Massage Back	2
3	HV4101-PAD	Heat Unit	1
4	HV4101-JBOX	Junction Box	1
5	GM1500-LM	Motor Chair Led Non Transformer	1
6	GM2000-TR	Motor Chair Transformer	1
7	GM1501-APUS-36	Transformer Cord	1

Model: UC480, PL340. PL470

Note: The above drawing is for units manufactured after August 2016 to the present time.

HV4101-HC-NQR INSTALLATION





REF #	PART NUMBER	DESCRIPTION	QTY.
1	HV4001	Hand Wand, Heat and Massage and Lift	1
2	HV4004B	Massage Back	2
3	HV4003	Heat Unit	1
4	GM1500-LM	Motor Chair Led Non Transformer	1
5	GM2000-TR	Motor Chair Transformer	1
6	GM1501-APUS-36	Transformer Cord	1

Model: UC480, PL340

Note: The above drawing is for units manufactured prior to May 2012.

Trouble Shooting with Smart Tek®

Models: UC214, UC332M, UC332L, UC542-JPT, UC542-M, UC542-L, UC480, UC480MLA, UC774, UC790, UC992, UC550-JPT, UC550-M, UC550-L, UC556-SME, UC556-MLA, UC520-M, UC680, UC792, UC551-JPT, UC551-M, UC551-L, UC557, UC521, UC486-MLA

Solution

Chair doesn't work, both LED lights are off.	 Check right angle plug is connected to the transformer. Check the plug end of the transformer is plugged into the wall outlet. Check the fuse or breaker to the wall outlet the chair is plugged into. If all above are ok, defective transformer
Chair doesn't work, both LED lights are on.	1. Defective motor replace it.
Chair motor runs in one direction, both lights on.	1. Defective hand control replace it.
Chair doesn't work; LED on hand control is off.	 Check the quick release connector is plugged in and locked in the chair pocket.
	 Check the extension from the pocket is connected to the motor. If all above are ok, defective hand control or extension wire, extension wire rarely goes bad,

Models: UC542-ME6

Problem:

Problem-

Chair doesn't work, both LED lights are off.

Chair doesn't work, both LED lights are on.

Chair motor runs in one direction, both lights are on. 1. Defective hand control, replace it.

Chair doesn't work; LED on hand control is off.

Solution:

replace hand control.

1. Check right angle plug is connected to the transformer.

- 2. Check the plug end of the transformer is plugged into the wall outlet.
- 3. Check the fuse or breaker to the wall outlet the chair is plugged into. If all above are ok, defective transformer, replace it.
- Check motors are plugged into the control box. If all above are ok, defective control box or motors, both motors rarely go bad, replace control box.

 Check the quick release connector is plugged in and locked in the chair pocket.

2. Check the extension from the pocket is connected to the control box.

If all above are ok, defective hand control or extension wire or control box, extension wire rarely goes bad, replace control box and hand control, replace hand control first to see if problem is resolved.



See parts list for specific parts by model.

LM5000C LIFT MOTOR



LM5000C LIFT FRAME PARTS LIST

Part Number	Description	Qty. Per Unit
BB5003	Washer, 380 x 750 x 062 Nylon	2
BB5512	Pin, 3/8 x 1 5/8 Zinc Clevis	1
BB5514	Pin, Hitch	11
BB5515	Cap, 1" Square End Chair	8
BB5518	Tywrap, 8" Black	2
BB5530	Leg Leveler 5/16 X 1	4
BB5531	Pin, 3/8 x 2 1/2 Zinc Clevis	1
BB5535	Washer, 750 x 394 x 125 Nylon	6
BB5549	Washer, 400 x 750 x 312 Nylon	2
BB5567	Pin, 3/8 x 2 5/8 Zinc Clevis	1
GM1500-LM	DC INLINE MOTOR	1
LM5000C	5000C LIFT FRAME	1
LM-RS5100	RECLINE STRAP 5100 / 6111 SERIES LIFT FRAME	2
ZKUC-10	Hand Wand, 2 Button LED	1

RECLINE BAR FOR 5000C LIFT FRAME

RB4000-CB RECLINE BAR CAPRI	1
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RECLINE MECHANISMS FOR 5100 LIFT FRAME

RM8300L	RM8300L2 WAY MECHANISM LEFT SIDE1			
RM8300R 2 WAY MECHANISM RIGHT SIDE		1		
LEFT AND RIGHT IS DETERMINED BY SITTING IN CHAIR				

TRANSFORMER FOR 5100 LIFT FRAME

GM2000-TR	Motor Chair Transformer	1
GM1501-APUS-36	Transformer Cord	1

CALL TECHNICAL SERVICE FOR FABRIC, FOAM, SPRING AND WOOD PART NUMBERS AND PRICING



For use in models UC332MED, UC542-JPT, UC542-SMA, UC542-MED, UC480, UC774, UC550-JPT, UC550-M, UC342-M, UC559-SMA, UC559-MED See parts list for specific parts by model.

LM5100 LIFT MOTOR



LM5100 LIFT FRAME PARTS LIST

Part Number	Description	Qty. Per Unit
BB5003	Washer, 380 x 750 x 062 Nylon	2
BB5512	Pin, 3/8 x 1 5/8 Zinc Clevis	1
BB5514	Pin, Hitch	11
BB5515	Cap, 1" Square End Chair	8
BB5518	Tywrap, 8" Black	2
BB5530	Leg Leveler 5/16 X 1	4
BB5531	Pin, 3/8 x 2 1/2 Zinc Clevis	1
BB5535	Washer, 750 x 394 x 125 Nylon	6
BB5549	Washer, 400 x 750 x 312 Nylon	2
BB5567	Pin, 3/8 X 2 5/8 Zinc Clevis	1
GM1500-LM	DC INLINE MOTOR	1
LM5100	5100 lift frame	1
LM-RS5100	RECLINE STRAP 5100 / 6111 SERIES LIFT FRAME	2
ZKUC-20	Hand Wand, Standard 2 Button UltraComfort	1
ZKAD-1	Hand Wand Auto Drive for Lift Chairs	1
ZKAD-5	Hand Wand Faster Auto Drive UP and M button	1

Note: Refer to "Models Quick Reference" chart for correct hand control by model.

RECLINE BARS FOR 5100 LIFT FRAME

RB5100-M-1 RECLINE BAR MEDIUM / SMALL 1	ſ			4
		RB5100-M-1	RECLINE BAR MEDIUM / SMALL	1

RECLINE MECHANISMS FOR 5100 LIFT FRAME

RM621L	3 WAY MECHANISM LEFT SIDE	1
RM621R	3 WAY MECHANISM RIGHT SIDE	1
RM8300L	2 WAY MECHANISM LEFT SIDE	1
RM8300R	2 WAY MECHANISM RIGHT SIDE	1

LEFT AND RIGHT IS DETERMINED BY SITTING IN CHAIR

TRANSFORMER FOR 5100 LIFT FRAME

GM2000-TR	Motor Chair Transformer	1
GM1501-APUS-36	Transformer Cord	1

CALL TECHNICAL SERVICE FOR FABRIC, FOAM, SPRING AND WOOD PART NUMBERS AND PRICING



For use in models UC332LRG, UC480-MLA, UC482-M. UC484-M, UC486-MLA, UC542-LAR, UC790, UC550-LRG, UC556-SME, UC556-MLA, UC520-MED, UC808, UC556-M, UC680-MED, UC682-MED-DSB, UC682-M, UC792-MED, UC794-MED, UC798-M, UC798-MLA, UC559-LRG See parts list for specific parts by model. 55

LM5120 LIFT MOTOR ASSEMBLY



LM5120 LIFT FRAME PARTS LIST

Part Number	Description	Qty. Per Unit
BB5003	Washer, 380 x 750 x 062 Nylon	2
BB5512	Pin, 3/8 x 1 5/8 Zinc Clevis	1
BB5514	Pin, Hitch	11
BB5515	Cap, 1" Square End Chair	8
BB5518	Tywrap, 8" Black	2
BB5530	Leg Leveler 5/16 X 1	4
BB5531	Pin, 3/8 x 2 1/2 Zinc Clevis	1
BB5549	Washer, 400 x 750 x 312 Nylon	2
BB5567	Pin, 3/8 X 2 5/8 Zinc Clevis	1
GM1500-LM	DC INLINE MOTOR	1
GM1410-LM	Chair Lift Motor 1410	1
LM5120	5120 LIFT FRAME	1
LM-RS5100	RECLINE STRAP 5100 / 6111 SERIES LIFT FRAME	2
ZKAD-1	Hand Wand Auto Drive for Lift Chairs	1
ZKUC-20	Hand Wand, Standard 2 Button UltraComfort	1
ZK404-UC	Hand Wand Two Button with Lumbar and Headrest UC	1
ZK404-EXT	Extension for ZK404-HC	1

Note: Refer to "Models Quick Reference" chart for correct hand control by model.

RECLINE BARS FOR 5120 LIFT FRAME

RB5100-M-1	RECLINE BAR MEDIUM / SMALL	1
RB5100-L-1	RECLINE BAR LARGE / 754	1

RECLINE MECHANISMS FOR 5120 LIFT FRAME

RM620L	Recline Mechanism Maxi Comfort Left Side Sit	1
RM620R	Recline Mechanism Maxi Comfort Right Side Sit	1
RM621L	3 Way Mechanism Left Side Sit	1
RM621R	3 Way Mechanism Right Side Sit	1

LEFT AND RIGHT IS DETERMINED BY SITTING IN CHAIR

TRANSFORMER FOR 5120 LIFT FRAME

GM2000-TR	Motor Chair Transformer	1
GM1501-APUS-36	Transformer Cord	1
GM1410-TR	Chair Transformer 1410	1

CALL TECHNICAL SERVICE FOR FABRIC, FOAM, SPRING AND WOOD PART NUMBERS AND PRICING

LM6111 LIFT FRAME



For use in models UC542-ME6, UC542-M26, UC550-M26, UC559-M26 See parts list for specific parts by model.

LM6111 LIFT MOTOR



LM6111 LIFT FRAME PARTS LIST

Part Number	Description	Qty. Per Unit
BB5003	Washer, 380 x 750 x 062 Nylon	4
BB5512	Pin, 3/8 x 1 5/8 Zinc Clevis	2
BB5514	Pin, Hitch	13
BB5515	Cap, 1" Square End Chair	8
BB5518	Tywrap, 8" Black	2
BB5530	Leg Leveler 5/16 X 1	6
BB5531	Pin, 3/8 x 2 1/2 Zinc Clevis	2
BB5535	Washer, 750 x 394 x 125 Nylon	4
BB5549	Washer, 400 x 750 x 312 Nylon	4
BB5567	Pin, 3/8 X 2 5/8 Zinc Clevis	2
GMOKI-28W	Motor Chair Okin 26-28 Wide Motor	2
GMOKI-CB	Motor Chair Okin 26-28Wide Control Box 4/2003	1
GM1502L-B	Motor Chair Battery Back Up Wire for GM1501-B with LED	1
LM6111	Dual Motor Lift Frame	1
LM-RS5100	RECLINE STRAP 5100 / 6111 SERIES LIFT FRAME	2
ZKUC-10	Hand Wand, 2 Button LED	1

Note: Refer to "Models Quick Reference" chart for correct hand control by model.

RECLINE BARS FOR 6111 LIFT FRAME

RB6111-1	DUAL MOTOR RECLINE BAR	1

RECLINE MECHANISMS FOR 6111 LIFT FRAME

RM621L	3 Way Mechanism Left Side Sit	1
RM621R	3 Way Mechanism Right Side Sit	1
RM622L	3 Way Mechanism Left Side Heavy Duty	1
RM622R	3 Way Mechanism Right Side Heavy Duty	1

LEFT AND RIGHT IS DETERMINED BY SITTING IN CHAIR

TRANSFORMER FOR 6111 LIFT FRAME

GM2000-TR	Motor Chair Transformer	1
GM1501-APUS-36	Transformer Cord	1

LM5200M-RO (Recline Only) FRAME - AUTOLOUNGER



For use in models UC551-M, UC551-L, UC557, UC521-M **Note: UC551-JPT uses a LM5200M-JP Lift Frame, not shown.** *See parts list for specific parts by model.*

LM5200M-RO (Recline Only) MOTOR - AUTOLOUNGER



LM5200M-RO FRAME PARTS LIST

Part Number	Description		
BB5003	Washer, 380 x 750 x 062 Nylon	2	
BB5512	Pin, 3/8 x 1 5/8 Zinc Clevis	1	
BB5514	Pin, Hitch	5	
BB5515	Cap, 1" Square End Chair	4	
BB5518	Tywrap, 8" Black	2	
BB5530	Leg Leveler 5/16 X 1	4	
BB5531	Pin, 3/8 x 2 1/2 Zinc Clevis	1	
BB5549	Washer, 400 x 750 x 312 Nylon	2	
BB5567	Pin, 3/8 X 2 5/8 Zinc Clevis	1	
LM5200-RO	COMPLETE 5200 RECLINE ONLY FRAME ASSEMBLY	1	
LM-RS5100	RECLINE STRAP 5100 / 6111 SERIES LIFT FRAME	2	
ZKAD-EXT	Hand Control Extension	1	
ZKRO-1	Hand Wand Auto Drive for AutoLounger	1	
GM1800-LA	Motor AutoLounger Lift 6.2 second drive	1	
GM1800-RA	Motor AutoLounger Recline 8.8 Second Drive	1	

Note: Refer to "Models Quick Reference" chart for correct hand control by model.

RECLINE BARS

RB5100-M-1	RECLINE BAR MEDIUM / SMALL	1
RB5100-L-1	RECLINE BAR LARGE / 754	1

RECLINE MECHANISMS

RM620L	Left Side Stellar Comfort Mechanism	1
RM620R	Right Side Stellar Comfort Mechanism	1

TRANSFORMER

GM1800-THD	Chair Transformer High Drive w/AC Cord Non-Battery BU	1
GM1501-APUS-36	Transformer Cord	1
GM1502-EXTLL	Motor chair Extension Wire Low Voltage Led Limoss	1

CALL TECHNICAL SERVICE FOR FABRIC, FOAM, SPRING AND WOOD PART NUMBERS AND PRICING

LM992 LIFT FRAME ASSEMBLY



LM992 LIFT FRAME PARTS LIST

Part Number	Description	Qty. Per Unit
BB5513	Pin, 3/8 x 2 Zinc Clevis	1
BB5514	Pin, Bow Shaft 72 1/4 Hitch Pin	2
BB5518	Tywrap, 8" Black	2
BB5518-W11TY	Tywrap, 11" White	1
BB5529	Pin, 3/8 x 1 7/8 Zinc Clevis	1
BB5574	Washer, Nylon Black, 314 x 750 x 313	2
BB5665	Glide Plastic for LM992s Wall Hugger Frame	6
BB5663	Leg Leveler 5/16 x 18 x 1-1/2 Stem for 992	2
BB5666	Nut, Hex Nut 5/16 Zinc	2
BBWASH	Washer Split Lock 5/16 Zinc	2
FMPIPE-1	Foam Pipe Foam Grey 3/4 ID By 1 5/8 OD	1
GM1502L-B	Motor Chair Battery Back Up Wire for GM1501-B with LED	1
GM1900	Motor Wall Hugger 992	1
* LM992N	992 Small Lift Frame (for UC544-SMA)	1
* LM992S	992 Medium/Large Lift Frame (for UC544-MED, UC544-LAR)	1
ZK1100-EXT	Extension for Hand Control for ZK1100 2 Button System	1
GM1501-APUS-36	Transformer Plug 1501-A Standard USA 36 inches	1
GM2102-TR-PK	Chair Motor Transformer 2 Amp with US Plug Pack	1
ZKUC-20-1	Hand Wand Standard 2 Button Ultra Comfort Line USB	1

For use in model: UC544-SMA, UC544-MED, UC544-LAR

LM5124 LIFT FRAME CRADLE ASSEMBLY









DETAIL B

		PARTS LIST
ITEM	QTY	PART NUMBER
1	1	Lift Frame Assembly
2	1	Cradle Assembly
3	2	2 1/4" Shoulder Bolt
4	2	Rear Link
5	2	Locking Pin
6	2	.42 Washer
7	2	2 1/2" Shoulder Bolt
8	8	.03 Washer
9	2	1 3/4" Shoulder Bolt
10	2	Front Link
11	4	1/8" Washer
12	6	3/8-16 LocK Nut

Use "Super Lube" on all pins

LM5124 LIFT FRAME CRADLE ASSEMBLY - CONTINUED











DETAIL A

		PARTS LIST
ITEM	QTY	PART NUMBER
1	2	1.75" Clevis Pin, BB5566
2	2	1 1/2" Shoulder Bolt
3	10	1/16" Washer
4	6	5/16-18 Lock Nut
5	3	Hairpin Clip
6	1	Base Assembly
7	1	Top Assembly
10	2	Strap
11	4	2" Shoulder Bolt
12	4	.40 Washer
13	2	1/8" Washer
14	2	Bridge Strap
15	1	2.50" Clevis Pin, BB5531

Use "Super Lube" on all joints

LM5124 LIFT FRAME CRADLE ASSEMBLY – REPLACEMENT



Figure 1

To Replace Frame:

- 1. Disconnect the hand control from the extension wire inside the pocket on the side of the chair.
- 2. Remove staples on both sides of the hand control extension wire. See figure 1.
- 3. Pull the extension out of the fabric opening.
- 4. Disconnect the back motor wire from the 3-way harness.
- 5. Remove the back motor.
- 6. Remove the recline strap detent pin.
- 7. Remove the 4 bolts (center position) which secure the frame to the chair.
- 8. Lift the frame out of the chair. (Warning: The lift frame can open when removing, proceed with caution).
- 9. Repeat steps 1-8 in the reverse order to install the new LM5124 frame.

For use in models: UC558-MLA, UC546-JPT, UC546-M, UC546-L, UC570-JPT, UC570-MED, UC570-LRG, UC490-MLA, UC562-MLA, UC799-MLA

Note: UC546 models have no back motor.

LM5124 LIFT FRAME - CRADLE MOTOR

Attaching Cradle Motor to Frame



Step 1 - Align the back of cradle motor (GM1450-CM) to frame bracket. Insert clevis pin (BB5512) 3/8" x 1 5/8" through frame, two nylon washers (BB5535) 394 x 750 x 125, motor and attach with hair pin (BB5514). Fig 1



Step 2 - Align the cradle motor fork head to frame bracket. Insert clevis pin (BB5512) 3/8" x 1 5/8" through the frame, two nylon washers (BB5540) 394 x 750 x 125, motor tip and attach the hair pin (BB5514). Fig 2

LM5124 LIFT FRAME - LIFT MOTOR

Attaching Lift Motor to Frame



Step 1 - Align the lift motor (GM1450-C3M) with the recline straps. Insert shoulder bolt (BB5590) $3/8" \times 2$ 1/2" through nylon washer (BB5003) $380 \times 750 \times 062$, recline strap, nylon washers (BB5535) $394 \times 750 \times 125$, and (BB5549) $403 \times 750 \times 312$, motor, nylon washers (BB5535) $394 \times 750 \times 125$, and (BB5535) $394 \times 750 \times 125$, and (BB5549) $403 \times 750 \times 312$, recline strap, nylon washer (BB5535) $394 \times 750 \times 125$, and nylon lock nut (BB5588) 3/8" - 16. Fig 1

Attaching Lift Motor Fork Head to Frame



Step 2 - Align the lift motor tip to frame bracket. Insert clevis pin (BB5512) 3/8" x 1 5/8" through the frame, fork head, and attach the hair pin (BB5514). Fig 2

LM5124 LIFT FRAME - LIFT MOTOR - CONTINUED



Step 3 - Actuate motor until recline straps meet the cross bar on top piece of frame. Fig 3

LM5124 LIFT FRAME - CONTROL BOX

Attaching the Control Box



Models UC558-MLA, UC570-JPT, M, L Step 1 - Place control box (GMC3M-CB) as shown. Attach coiled hand control extension (ZKAD-EXT) and control box (GMC3M-CB) to the frame using a 24" black Ty wrap (BB5518-24TY) as shown in the picture. Fig 1



Models UC546-JPT, M, L Only Step 1 - Place control box (GM3000-CB) as shown. Attach to the frame using a 24" black Ty wrap (BB5518-24TY) as shown in the picture. Fig 1A

LM5124 LIFT FRAME - CONTROL BOX - CONTINUED



Models UC546-JPT, M, L

Step 2 - Route the hand control coiled extension along the right-hand side inside rail. Use 8" black Ty wrap (BB5518) in two (2) places on the lower rail. First, in front of the upright, and second in front of the cradle motor as shown. Next, loop the extension back and use one (1) 8" black Ty wrap (BB5518) to the upper rail as shown. Lay the loose end on the extension over top of the upper rail as shown. Fig 2

Models UC558-MLA, UC570-JPT, M, L

Step 3 - Attach the control box cradle transformer extension (GM2100-CB-EXT) and the Control box extension C3M to motor (GMC3M-3MEC) to the control box. Attached the 1" black elastic cable hanger to the U-bar and place the motor cables it the hanger as shown.

NOTE: These cables MUST be suspended inside the elastic hanger, and the ease locks MUST be on the control box side of the hanger as shown. Fig 3. Step 4- Attach the control box cradle transformer extension (GM2100-CB-EXT) and the box extension C3M to motor (GMC3M-3MEC) to the control box. Attached the 1" black elastic cable hanger to the U-bar and place the motor cables it the hanger as shown. **NOTE:** These cables MUST be suspended inside the elastic hanger, and the ease locks MUST be on the control box side of the hanger as shown. Fig 3.



Step 3 - Attach the USB cable (GMUSB-2-MF) to the frame with a 8" black Ty wrap (BB5518) as shown. See Fig 3A. Run the USB cable along the frame and secure it using Ty wraps like the coil cord shown above in Fig 2.

Step 4 - Attach the control box extension (GM3000-CB-EXT) to the control box. Attach the cradle motor (GM3000-CM) and the lift motor (GM3000-LM) to the control box. as shown. Fig 3A.

LIFT FRAME - CONTROL BOX - CONTINUED



Models UC558-MLA, UC570-JPT, M, L

Step 4 - Place a 12" piece of spiral wrap around the motor cables between the elastic hanger and the 3-way splitter as shown. Use one (1) 8" black Ty wrap (BB5518) to secure the cradle coil wire to the other motor wires as shown. Fig 4

For use in models: UC558-MLA, UC570-JPT, UC570-M, UC570-L, UC490-MLA, UC799-MLA
StellarComfort Recline Mechanism



NOTICE

When ordering back bolts BB5671 must be Grade 8. Each bolt requires a MS25W split washer and BB5603 lock nut. Each side of the RM756RMB recline bar require a quantity of three of each.

For use in models UC550-JPT, UC550-MED, UC550-LRG, UC556-SME, UC556-MLA, UC556-M, UC520-MED, UC680-MED, UC682-MED-DSB, UC792-MED, UC794-MED, UC798-MLA, UC551-JPT, UC551-M, UC551-L, UC557, UC521, UC570-JPT, UC570-M, UC570-L, UC559-SMA, UC559-MED, UC559-LRG, UC559-M26, UC799-MLASee parts list for specific parts by model.

Stellar Comfort Recline Mechanism Parts List

Model	Size	Lift Frame	Front Bar - Item # 1	Spacer Bar - Item # 2	Scissor Mechs	Back Bar - Item # 3	Recline Bar
UC550-JPT	Petite	LM5100	RM501JPT	RM501JPSB	RM622L RM622R	RM501JPRMB	RB753-2
UC550-MED	Medium	LM5100	RM756FB	RM756SB	RM622L RM622R	RM756RMB	RB5100-M-1
UC550-LRG	Large	LM5120	RM758LFB	RM758LSB	RM622L RM622R	RM758LRMB	RB5100-L-1
UC550-M26	Medium/Wide	LM6111	RM50526FB	RM50526SB	RM622L RM622R	RM50526RMB	RB6111-1
UC556-SME	Small/Medium	LM5100	RM501JPFB	RM501JPSB	RM622L RM622R	RM756RMB	RB753-2
UC556-M	Medium	LM5120	RM756FB	RM756SB	RM622L RM622R	RM756RMB	RB5100-M-1
UC556-MLA UC559-SMA	Medium/Large Small	LM5100	RM501JPFB	RM501JPSB	RM622L RM622R	RM501JPRMB	RB753-2
UC559-MED	Medium	LM5100	RM756FB	RM756SB	RM622R RM622R	RM756RMB	RB5100-M-1
UC559-LRG	Large	LM5120	RM758LFB	RM758LSB	RM622L RM622R	RM505LRMB-HR	RB5100-L-1
UC559-M26	Medium/Large	LM6111	RM50526FB	RM50526SB	RM622L RM622R	RM50526RMB	RB6111-1
UC520-MED	Medium	LM5120	RM756FB	RM756SB	RM622L RM622R	RM756RMB	RB5100-M-1
UC680-MED	Medium	LM5120	RM756FB	RM756SB	RM622L	RM630RMB or	RB5100-M-1
UC682-MED- DSB	Medium	LINGTZO			RM622R	RM512RMB	
UC792-MED UC794-MED	Medium Medium	LM5120	RM756FB	RM756SB	RM622L RM622R	RM756RMB	RB5100-M-1
UC798-MLA	Medium/Large				DMC201		
UC799-MLA	Medium/Large	LM5124	RM514MFB	RM756SB	RM622L RM622R	RM514MRMB	RB5100-M-1
UC558-MLA	Medium/Large	LM5124	RM514MFB	RM756SB	RM622L RM622R	RM514MRMB	RB5100-M-1
UC570-JPT	Petite	LM5124	RM514FB	RM756SB	RM622L RM622R	RM514RMB	RB5100-M-1
UC570-MED	Medium	LM5124	RM514FB	RM756SB	RM622L RM622R	RM514RMB	RB5100-M-1
UC570-LRG	Large	LM5124	RM128LFB	RM758LSB	RM622L RM622R	RM128LRMB	RB5100-L-1
			Recline Only	Models			
UC551-JPT	Petite	LM5200M-RO-JP	RM505JPFB	RM501JPSB	RM620L RM620R	RM501JPRMB	RB753-2
UC551-M	Medium	LM5200M-RO	RM756FB	RM756SB	RM620L RM620R	RM756RMB	RB5100-M-1
UC551-L	Large	LM5200M-RO	RM756FB	RM758LSB	RM620L RM620R	RM758LRMB	RB5100-L-1
UC557	Medium	LM5200M-RO	RM756FB	RM756SB	RM620L RM620R	RM756RMB	RB5100-M-1
UC521	Medium	LM5200M-RO	RM756FB	RM756SB	RM620L RM620R	RM756RMB	RB5100-M-1

Power Connections



* Current p/n.

Models: UC212-MED, UC342-M, UC214-MED, UC332-MED, UC332-LRG, UC542-JPT, UC542-SMA, UC542-MED, UC542-LAR, UC542-ME6, UC480-MLA, UC482-M, UC484-MED, UC486-MLA, UC774, UC790, UC992, UC550-JPT, UC550-MED, UC550-LRG, UC556-SME, UC556-MLA, UC556-M, UC520-MED, UC522, PL340, UC680-MED, UC682-MED-DSB, UC792-MED, UC794-MED, UC798-MLA, UC808, UC558-MLA, UC546-JPT, UC546-M, UC546-L, UC570-JPT, UC570-MED, UC570-LRG, UC562-MLA, UC559-SMA, UC559-MED, UC559-LRG, UC559-M26, UC799-MLA, UC114-MED, UC476-MED



Models: UC542-ME6, UC544-SMA, UC544-MED, UC544-LAR



Models: UC551-JPT, UC551-M, UC551-L, UC557, UC521-M use a FST type transformer with no battery backup.

Assembly Instructions for Joining Back to Chair









Step1: Plug in chair.

Step 2: Press the down arrow on the hand control until the footrest is about parallel to the floor. This will expose the back brackets at the rear of the chair.

Step 3: Slide the back down between the brackets until the threaded studs on the back slip thru the holes in the brackets as shown.

Step 4: Thread the flange lock nuts, located in the arm cover bag, onto the studs and tighten securely using the supplied wrench or a 7/16" box wrench.

Step 5: Return the chair to the seated upright position by pressing the up arrow on the hand control.

Step 6: Attach the bottom of the outside back to the Velcro on the arm cross rail.



Assembly Instructions for Joining Back to Chair Stellar Comfort Models



Step1: Plug in chair.

Step 2: Press the recline button on the hand control until the footrest is about parallel to the floor. This will expose the back brackets at the rear of the chair.

Step 3: Slide the back down between the brackets until the threaded studs on the back slip thru the holes in the brackets as shown.

Step 4: Thread the flange lock nuts, located in the arm cover bag, onto the studs and tighten securely using the supplied wrench or a 7/16" box wrench.

Step 5: Remove the clevis pin from the back recline motor tip. Slide the motor tip onto the back recline bar. Insert clevis pin through the hole in the tip and bar. Insert hair pin into the hole at the end of the clevis pin as shown.

Step 6: Return the chair to the seated upright position by pressing the sit button on the hand control.

Step 7: Attach the bottom of the outside back to the Velcro on the arm cross rail.



Hand Controls Lift & Recline and Recline Only

P/N: ZKUC-20 (5-pin connection) **P/N:** ZKUC-20-1 (with USB)



UC332M, UC332L, UC482-

MED, UC542-JPT, UC542-

SMA, UC542-M, UC542-L,

UC774, UC790, UC810,

UC542-ME6, UC480, UC482,

UC992, UC544-SMA, UC544-

MED, UC544-LAR, UC114-

P/N: ZKAD-5 \$7 UP RECLINE 59 56 ZG TV 58 \$5 SIT (SLEEP) \$10 SP + M 52 \$3 51 \$4

Models: UC550-JPT, UC550-M, UC550-L, UC556-SME, UC556-MLA, UC520-M, UC792, UC556-M, UC794-M, UC798-MLA, UC559-SMA, UC559-MED, UC559-LRG





Model: UC680-M, UC682-M Models: UC551-JPT, UC551-M, UC551-L, UC557, UC521

Note: Cut-in for UC480 from ZKUC-10 to ZKUC-20 *First week of April 2012 went to production.



Note: For individual switch functions on each hand control, refer to the owner's manuals.

Hand Controls Lift & Recline and Recline Only - Continued

*P/N: ZKAD-CM3



Model: UC558-MLA, UC570-JPT, UC570-M, UC570-L



Model: UC486-MLA



Note: For individual switch functions on each hand control, refer to the owner's manuals.

Hand Control - Heat & Massage Only

P/N: HV3100-UC (DHV System with 2 zones) **P/N**: HV3000-UC (DHV System with 3 zones)



Models: All with standard heat & massage.

Hand Controls - Lift & Recline and Heat & Massage

I he power button

S1 S2 S2

P/N: HV4200 (BHV System)

Models: PL340, UC480, UC522, UC524, UC340

Input Power: +27Vdc Switching Power Supply

The power button needs to be turned on to activate all the functions of the hand control. Activating the hand control starts a 20 minute timer. To restart the timer after it shuts off, press the PWR button again. Lights will dim to conserve energy after about 10 seconds of non use.

PWR Button Operation:

Green = Power on Blue = Power off

Power Lock Out

To lock the hand control, press and hold PWR button for 4 seconds. The button will glow red. To unlock the hand control, press and hold PWR button for 4 seconds. The button will glow blue. After unlocking the hand control, you will need to press the PWR button to turn on the power to the hand control.

MSG Button Operation:

Press to turn on the vibrators. Press again to turn off the vibrators.

HEAT Button Operation:

Press to turn on the heating pad. Press again to turn off the heating pad.

Arrow Key Operation:

Arrow Up (S1) = Recline Position Arrow Down (S2) = Seated Position

Timer Functions: There are two separate timer functions, One for Heat, and the other for Massage functions.

Heat Timer – Heat timer is activated when the heat button is depressed. Timer is factory set for 20 minutes.

Massage Timer- Massage timer is activated when the PWR button is depressed. Timer is factory set for 20 minutes.

Hand Controls - Lift & Recline and Heat & Massage

*P/N: HV4101-HC-NQR

-HEAT UF LOCK DOWN STDYOPULSE (MASSAGE) -NED O HIGH Billittes @ Iller (INTENSITY) mill

Models: UC340. UC480, PL340, PL470

Note: Must send BB5569 and BB5582.

To Lock/Lift Press and hold LOCK/UNLOCK key for approximately 3 seconds until red lock icon is lit. To Unlock Lift Press and hold LOCK/UNLOCK key for approximately 5 seconds until green unlock icon is lit. To Operate Heat Press HEAT key to turn on. Press HEAT key again to turn off. To Operate Massage

Press MASSAGE key to turn on massage. Press again to change from WAVE/STEADY/PULSE modes (colored LEDs indicate selection).

Press Up key to raise chair. Press DOWN key to lower

To Turn Massage Off

P/N: HV4101-HC (Cut-in: August 8, 2012 s/n UC or PL 1207F2S12160) GHV system

To Operate Lift

chair.

Press and hold MASSAGE key.

Massage Intensity

Press INTENSITY key to choose from LO/MED/HI (colored LEDs indicate selection). **NOTE:** The heat and massage is controlled by a 20 minute timer.

* Hand Control models currently being used.



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Models: UC340, UC480, PL340

P/N: HV4001 (GHV system)

To Operate Lift Press Up key to raise chair. Press DOWN key to lower chair.

To Lock/Lift

Press and hold LOCK/UNLOCK key for approximately 3 seconds until red lock icon is lit.

To Unlock Lift

Press and hold LOCK/UNLOCK key for approximately 5 seconds until green unlock icon is lit.

To Operate Heat

Press HEAT key to turn on. Press HEAT key again to turn off.

To Operate Massage

Press MASSAGE key to turn on massage. Press again to change from WAVE/ STEADY/PULSE modes (colored LEDs indicate selection).

To Turn Massage Off

Press and hold MASSAGE key.

Massage Intensity

Press INTENSITY key to choose from LO/MED/HI (colored LEDs indicate selection).

NOTE: The heat and massage is controlled by a 20 minute timer.

Smart Tek® LED lighting system



What is Smart Tek®?

Smart Tek® is a patented self-diagnostic technology standard on all UltraComfort lift chairs. Smart Tek® notifies the user if there is an electrical malfunction with their chair, helping technicians to diagnose the issue quickly and easily over the phone, saving valuable repair time! Smart Tek® gives the repair technician a better understanding of what parts they will need to repair the chair before they even leave the office.

How does Smart Tek® work?

UltraComfort's patented Smart Tek® system uses three LED lights to signal when the chair is not functioning properly.

The green LED lights can be found:

- On the two-button hand control for non-StellarComfort® models. The StellarComfort AutoDrive[™] hand control features backlit buttons which serve as the Smart Tek® light for those models.
- 2. On the transformer.
- On the wire that plugs from the motor into the transformer.

If all three LED lights are not lit, the user should first check that the chair is plugged into an electrical outlet, that the fuse or breaker for that outlet is properly working and all other connections are plugged together properly.

When the green LED on the transformer is not lit, it means that electricity is not getting to the transformer or there is a malfunction with the transformer and it needs to be replaced.

When the green LED on the wire from the motor to the transformer is not lit (but the light on the transformer is), it means there is no power coming from the transformer to the motor.

When the green LED on the hand control is not lit, or the buttons on an AutoDrive hand control are not lit, and the chair is not working, there is a possible defect with the hand control.

AutoFlex Wiring Diagram



Control Box Extension

DWG #	PART NUMBER	DESCRIPTION
1	MECH-LMBAF-MED	Mech Lumbar Auto Flex System Med
2	ZKLMB-AF	Hand Wand Lumbar Auto Flex
3	GMLMBAF-CB	Control Box Lumbar Auto Flex System
4	GMLMBAF-CB-EXT	Control Box Extension Lumbar Auto Flex
5	GMLMBAF-TRAN	Transformer Lumbar Auto Flex System
6	GM1501-APUS-250	Transformer Plug 1501-A Standard USA 36 inches

AutoFlex Hand Control



Model: UC550-M, UC550-L, UC556-MLA, UC551-M, UC551-L, UC557-M, UC559-MED, UC559-LRG

Automatic Cycling

The lumbar can cycle one of three programs by simply pressing the Autostart button 1, 2, or 3 times. See instruction for each below. *Note: The automatic feature will cycle for approximately 12 minutes then timeout. To restart, press the Autostart button 1, 2, or 3 times again.*

Autostop

Pressing this key will stop the lumbar system from cycling and return it to the relaxed position.

Autostart

Pressing this key will start the automatic cycling of the lumbar system.

- Press the Autostart key 1 time: Full extension 100% (No Pause, fully retracts 100%, then no pause)
 Press the Autostart key 2 times:
- Press the Autostart key 2 times: Extension 100% (Pauses 5 seconds, fully retracts, then pauses 3 seconds)
 - **Press the Autostart key 3 times:** Full extension 100% (Pauses 8 seconds, fully retracts, then pauses 4 seconds)

Manual Operation

The lumbar system can be manually adjusted to your desired position by pressing the two buttons shown below.

+

■ Press and hold this key down to manually reduce the lumbar pressure.

→))

Press and hold this key down to manual increase the lumbar pressure.

AutoFlex Parts

PART NUMBER	DESCRIPTION
GM1501-APUS-250	Transformer Plug 1501-A Standard USA 36 inches
GMLMBAF-CB	Control Box Lumbar Auto Flex System
GMLMBAF-CB-EXT	Control Box Extension Lumbar Auto Flex
GMLMBAF-TRAN	Transformer Lumbar Auto Flex System
MECH-LMBAF-MED	Mech Lumbar Auto Flex System Med
ZKLMB-AF	Hand Wand Lumbar Auto Flex

Shiatsu Hand Control



Model: UC774

Shiatsu Operation

1. Press the **ON/OFF** button to startup the massage. The rolling indicator will be on, signaling the direction the unit is operating. Default timer is 15 minutes.

2. Press the **TIMER** button to manually switch from 5 to 30 minutes of operation. Each time the button is pressed, the timer will increase in 5 minute intervals. If the timer is not pressed, the default time is 15 minutes.

3. Press the **ROLLING** button to start or stop the stretching action. This is a *kneading motion up and down the whole back*. Pressing the button a second time will stop the motion.

4. Press the **TARGET** button to initiate a focused, kneading motion *on a desired position of the back*. Pressing the button a second time will stop the motion.

How to troubleshoot a problem

Device does not work.

Connect hand wand, and operate as per the instructions.
 Check the transformer connections to the chair and the wall outlet.

3. Input: 100-240V Output: 29V/2A

4. Replace control box. *Note: Must be the same version control box.*

Device suddenly stops or runs in the wrong order.

1. Restart the hand wand.

2. Power off and disconnect the power supply, reconnect and power on after 20 minutes.

3. Check all related connectors and reconnect if necessary.

Shiatsu Parts

PART NUMBER	DESCRIPTION
GMMSGSH-CB	Control box Shiatsu Massage System
GMMSGSH-CB-EXT	Control Box Extension Shiatsu Massage System Y Connector
ZKMSG-SH	Hand Wand Shiatsu
ZKMSG-SH-EXT	Extension Cord for ZKMSG-SH
MECH-MSGSH-MED	Mech Shiatsu Massage System Med

Shiatsu Component Replacement

Tools Required: Phillips screwdriver, 3/8" wrench, 7/16" wrench, wire cutter, and staple puller.

Refer to figure 1 and follow the step-by-step instructions below for Shiatsu massage unit replacement.



Figure 1

Shiatsu massage unit removal / installation

- Step 1 Remove the power source by unplugging the chair from the AC wall outlet.
- Step 2 Remove the removable back fabric to expose the Shiatsu unit.
- Step 3 Remove the cable clamp from the wooden frame.

Step 4 – Unplug the Shiatsu unit from the control box.

Step 5 – Remove the (4) 1/4 - 1 whiz lock bolts and (4) 3/16 black nylon washers securing the Shiatsu metal frame to the wooden frame.

Step 6 – Remove the (4) $1/4 - 20 \times 1 1/2$ whiz lock bolts and (4) 1/4 - 20 flange lock nuts securing the Shiatsu unit to the metal frame.

Step 7 – Install the new massage unit by reversing removal process. When installing new unit, cable must be on the left side for proper placement.

Refer to figure 2 and follow the step-by-step instructions below for control box or extension wire replacement.



Figure 2

Control box removal / installation

Step 1 – With the chair upside down, run the chair hand control to raise the frame enough to access the control box.

- Step 2 Remove the power source by unplugging the chair from the AC wall outlet.
- Step 3 Unplug the (2) control box connections.
- Step 4 Remove the cable clamp securing the control box power wire to the wooden frame.
- Step 5 Remove the control box by sliding it off the bracket which secures it to the wooden frame.
- Step 6 Unplug the control box power wire from the transformer wire.
- Step 7 Install the new control box by reversing removal process.

Extension wire removal / installation

- Step 1 Remove the power source by unplugging the chair from the AC wall outlet.
- Step 2 Disconnect the Shiatsu hand control from the extension wire inside the pocket.

Step 3 – With the chair upside down, remove staples to allow the extension wire to be pulled through the fabric.

- Step $\overline{4}$ Remove the (2) cable clamps securing the extension wire to the wooden frame.
- Step 5 Unplug the extension wire from the control box to remove it.
- Step 6 Install the new extension wire by reversing removal process.

Shiatsu Wiring Diagram



UC486-MLA Hand Control & Wiring





Item No	Description	Qty.
GM1410-LM	Chair Lift Motor 1410	1
LM5120	LM5120 Lift Frame	1
ZK404-EXT	Extension for ZK404-HC	1
GM1410-TR	Chair Transformer 1410	1
GM1501-APUS-36	Transformer Plug 1501-A Standard USA 36 inches	1
ZK404-UC	Hand Wand Two Button with Lumbar and Headrest UC	1
GM0910	Motor Headrest	1
MECH-LMBPP	PR404 Mech Lumbar PP System 404 Series	1

Foot Rest Extension Installation

Models: UC542-M, UC480-MLA, UC550-M, UC550-L, UC551-M, UC551-L, UC559-MED, UC559-LRG

Kit Includes: Quantity (1) extension board, (2) brackets, (4) 1/4-20 x 1" bolts, (4) 1/4-20 x 1 1/2" bolts, (2) large black front stoppers, (4) small black spacers, (6) lock nuts, (2) wood screws

Tools Required: Phillips screwdriver, 3/8 socket, and 7/16 wrench





Step 1 – Place chair upside down, open footboard, remove Phillips head screw from one side of the footboard and retain the screw.

Step 2 – Remove hex head bolt from the same side of the footboard and retain the bolt. Repeat steps 1 and 2 for the opposite side.



Step 4

Step 3 – Remove (1) bracket, 1" bolt, large stopper, and lock nut from the kit and install as a stop as shown. Position the bracket between the footboard and scissor mechanism.

Step 4 – Install (1) bolt removed in step 2 through the bracket, scissor mechanism, and into the footboard as shown.

Step 5 – Install (1) Phillips head screw removed in step 1 through the end hole of the bracket, scissor mechanism, and into the footboard as shown. Repeat steps 3-5 for the opposite side of the footboard.





Step 6 – Remove (2) 1 1/2" bolts, small spacers, and lock nuts from the kit. Insert each bolt through the scissor mechanism. Place a spacer on each bolt, align the holes in the bracket and insert the bolts. Place a lock nut on each bolt and tighten to secure. See figure 6B for completed assembly. Repeat for opposite side.





Step 7 – Locate t-nut under typar on one side of the extension board and poke a hole through the typar. Repeat for opposite side. Ensure nap direction on cloth fabrics by rubbing across the fabric on both pieces.

Step 8 – Remove (2) 1" bolts from the kit. Insert one bolt through the bracket and into the extension board. Align extension board and bracket square and tighten to secure. Repeat for opposite side.





Step 9 – Close and open the footboard to check for proper function. When open, the footboard and extension board are not level. The extension sits slightly lower when installed properly. See figure 9B.

Grease Points



WARNING Appling any type of lubricant as a routine maintenance procedure is not necessary. If lubricating the lift chair to alleviate excessive noise, only apply the specified lubricant at the locations shown below. Do not apply excessive lubricant. Excessive lubricant could leak onto the chair or the floor causing damage.



USE WHITE LITHIUM GREASE



USE ZEP2000

Procedure for Lubricating Recline Bars



In this photo the chair is upside down and the footrest is open.

Recline bar is located under the seat. It is a wide "U" shaped bar that is rotating on recline bar bolts. It is also attached to straps that are also attached to the motor.

To confirm the noise is coming from the recline bar you can unhook the recline bar from the motor straps by removing the hairpin and pulling out the clevis pin and rotating the recline bar back and forth listening for the noise.







The recline bar bolt is screwed in from the outside of the wooden seat frame through a t-nut. It then goes through the metal square tubing in a bushing.

The bushing (cylinder the recline bar bolt travels through in the square metal tubing) is lubricated with a heavy duty synthetic grease at the factory before the recline bar is installed.



We recommend Super Lube, which works best if you can get it inside the bushing of the square tubing.

It is recommended that grease be used rather than a liquid spray or oil.

There are some aerosol greases available to purchase at the hardware store.

We use CRC 3-36 to lubricate hard to reach areas but it isn't as effective as grease because it doesn't last as long.





Lift Chair Cut Away



Note: The above illustration is intended as general information. It does not represent all models in this manual.

Lift Chair Boxing Instructions



Lift Chair Boxing Instructions



Slide the groove of the foam blocks onto the leg levelers, first onto one, then onto the opposite one, so that the foam is locked into place.



UC540M-26, UC542M-26, UC542-ME6 Lift Chair Boxing Instructions



With UltraComfort name in the upright position, form flaps for top of box and tape them. 1 strip of tape along each edge.

NOTE: Use approved 3" packaging tape.



Tuck cord from hand control between arm & back of chair.



Place bag over chair.



3 strips of tape across the middle.

> Place box over bagged chair. Make sure UltraComfort's name is upright on the box.

> > NOTE: Never force box onto chair. If the box is too tight, try turning it 90 degrees to see if it fits better.



Gently flip box to the upside down position.

UC540M-26, UC542M-26, UC542-ME6 Lift Chair Boxing Instructions



A CAUTION A READ BEFORE OPERATING FAILURE TO DO SO MAY VOID WARRANTY

Chair must be placed to allow free movement between:

BACK of CHAIR and WALL FOOTREST and any object in FRONT of CHAIR

Keep children, pets and foreign objects from back of chair or underneath chair and from in front of footrest while operating chair.

Do not allow children to play on this mechanized furniture or operate the mechanism.

Leg rest folds down on closing so that a child could possibly be injured.

Always leave chair in a sitting position. Keep hands and feet clear of mechanism. Only the occupant should operate it.

Failure to do so may cause injury or damage to chair.



Comfort That's Patented"

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