This Service Guide contains:
Troubleshooting
Replacement Instructions
Illustrated Parts Diagrams

Need parts CLICK HERE
Contact Information:
Golden Technologies
401 Bridge Street
Old Forge, PA 18518

Toll-free: 800-624-6374
Fax: 800-628-5165

Lift Chair/Bed Tech: x645
Mobility Tech: x648
VA Tech: x647

Email: parts@goldentech.com
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About the Lift Chair Service Guide

This service guide provides you with the information necessary to repair Golden Technologies 3-position, 2-position, and MaxiComfort 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 22).

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)
- Hand Control
- Extension Wire
- Transformer
- Battery Backup Wire*
- Heat Unit*
- Massage Unit*
- Control Unit*
- Junction Box*

* 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 motor 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.
Expected Readings: See “Trouble Shooting with SMART TEK” on page 22.
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.
Expected Readings: See “Trouble Shooting with SMART TEK” on page 22.
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.
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 transformer.
Failure Signs: Chair will not lift and/or recline. Clicking noise. Motors out of sync.
Tests: AC Voltage
Expected Readings: 27 - 32 VAC. See figure 1.
Serviceable: Must be replaced.

Component: Heat Pad
Location: On the chair seat.
Function: Provides heat.
Connections: Connected to the control box.
Failure Signs: No heat.
Tests: Resistance.
Expected Readings: (Far Infrared Heat only, 1 - 6 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.
Serviceable: Must be replaced.
Component: Hand Control (Heat/Massage or Infrared Heat Only)
Location: On the arm of the chair.
Function: Provides user interface for heat/massage or Infrared heat only.
Connections: Connected to the control box.
Failure Signs: Heat/Massage or Infrared Heat Only will not work.
Tests: See “Hand Controls” on pages 45-47. For a more complete guide, refer to the manufacturer’s owner’s manual.
Expected Readings: See “Hand Controls” on pages 45-47. For a more complete guide, refer to the 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 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 22).

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.
F) If still no response, see “Trouble Shooting with SMART TEK” on page 22.

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 in gear casing in motor assembly.
D) Push tube may be stripped or the fork head may be broken.

Tools Required:
The following tools are needed to service Golden Technologies lift 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).
• 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

If servicing a lift chair with the MaxiComfort mechanism, you will also need:
• 7/16 & 3/8 ratchet wrench
• 5/32 Allen wrench
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Replacement Instructions

Smart Tek Hand Control Replacement
Tools Needed: None

1. **WARNING** Unplug the transformer from the wall outlet.
2. Unplug the motor power cable.
3. Reach down into the pocket until you feel the disconnect latch on the extension cable.
4. Pull back on the disconnect latch.
5. 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.
6. Plug in the new Smart Tek hand control to the extension cable.
7. Push forward on the disconnect latch. Make sure it engages fully with the hand control plug base.
8. Reconnect the motor power cable.
9. Plug the transformer into the wall outlet and test the hand control.

Hand Control Extension Wire 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. Unplug the transformer from the battery backup cable.
3. Reach down into the chair’s side pocket until you feel the disconnect latch on the hand control extension.
4. Pull back on the disconnecting latch.
5. 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.
6. 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.
7. 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.
8. Remove a few staples on the arm assembly to allow the extension wire to be pulled out through the fabric pocket.
9. Pull the extension cable through the fabric pocket.
10. Locate the zip ties that hold the extension wire to the lift frame. Note their location.
11. Cut these ties.
12. Unplug the extension cable from the control box.
13. Plug the new extension cable into the control box.
14. Secure it to the lift frame with zip ties. Use the same locations as the old extension cable.
15. Insert the extension cable into the fabric pocket.
16. Reinstall the staples that were removed in step 8.
17. Reinstall the wire clamp.
18. Turn the chair back over onto its legs.
19. Plug in the Smart Tek hand control to the extension cable.
20. Push forward on the disconnecting latch. Make sure it engages fully with the hand control plug base.
21. Clip the Smart Tek hand control to the black plastic hook on the side of the chair arm.
22. Plug the battery backup back into the transformer.
23. Plug the transformer back into the wall outlet and test.
Back Assembly Replacement (500-lb. and 3-position)

Tools needed: 7/16 in. socket wrench

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

2. **WARNING** Unplug the transformer from the wall outlet.
3. Using the 7/16 in. socket wrench, remove the (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 stand.

1. **WARNING** Unplug the transformer from the wall outlet.
2. Unplug the transformer from the wall outlet.
3. 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.
4. Unplug the motor(s), hand control extension, and battery backup from the control box.
5. Cut the wire ties that fasten the control box and the motor(s) to the lift frame and remove it.
6. Use wire ties to fasten a new control box onto the lift frame.
7. Plug the motor(s), hand control extension, and battery backup into the new control box.
8. Gently turn the chair back over.
9. Plug the battery backup cable into the transformer.
10. Plug the transformer into the wall outlet and test.

Lift Motor Replacement

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

1. **WARNING** Unplug the transformer from the wall outlet.
2. Unplug the transformer from the wall outlet.
3. 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.
4. Unplug the motor(s) from the control unit (501M26, 501L26, 501T28), or from the hand control extension and the transformer.
5. Remove the hitch pin and the clevis pin that fastens the bottom of the motor(s) to the lift frame.
6. Remove the hitch pin, the clevis pin, washers, and spacers that fasten the top of the motor(s) to the recline straps.
7. Use the hitch pin and clevis pin to fasten the bottom of the new motor to the lift frame.
8. Use the hitch pin, clevis pin, washers, and spacers to fasten the top of the lift recline to the recline straps.
9. Connect the new motor(s) to the control unit.
10. Turn the chair over onto the lift frame.
11. Plug the battery backup cable into the transformer.
12. 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. **WARNING** **Unplug the transformer from the wall outlet.**
2. Unplug the battery backup cable from the transformer.
3. 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.
4. Unplug the motor(s), hand control extension, and battery backup from the control box.
5. Cut the wire ties that fasten the control box to the lift frame and remove it (500-lb. only.)
6. Remove the eight (8) T30 lag screws that hold the lift frame to the arm assembly.
7. Cut the wire ties that hold the hand control extension wire to the frame and place the wire to the side.
8. Remove the hitch pin(s), the clevis pin(s), and the washers that fasten the recline strap(s) to the recline bar.
9. 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.

10. Cut the wire ties that fasten the motor cables to the lift frame.
11. Remove the hitch pin(s) and the clevis pin(s) that fasten the bottom of the motor(s) to the lift frame.
12. Remove the hitch pin(s), the clevis pin(s), spacers, and washers that fasten the recline strap(s) to the lift frame.
13. Use the hitch pin(s), the clevis pin(s), spacers, and washers to fasten the recline strap(s) to the new lift frame.
14. Use the hitch pin(s) and the clevis pin(s) to fasten the bottom of the motor(s) to the new lift frame.
15. Place the new lift frame onto the chair shell.
16. Use the hitch pin(s), the clevis pin(s), and the washers to fasten the recline strap(s) to the recline bar.
17. Use the eight (8) T30 lag screws to fasten the lift frame to the arm assembly.
18. Use two wire ties to fasten the hand control extension to the lift frame.
19. Use wire ties to fasten the control box to the lift frame.
20. Plug the motor(s), hand control extension, and battery backup into the control box.
21. Gently push the chair back over.
22. Plug the battery backup cable into the transformer.
23. 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 in. socket, a stool or stand for placing the chair upside down.

1. **WARNING** **Unplug the transformer from the wall outlet.**
2. Unplug the battery backup cable from the control box.
3. Reach down into the chair’s side pocket until you feel the disconnect latch on the hand control extension.
4. Pull back on the disconnecting latch.
5. 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.
6. 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.
7. 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.
8. Remove a few staples on the arm assembly to allow the extension wire to be pulled out through the fabric pocket.
9. Pull the extension cable through the fabric pocket.
10. Remove the eight (8) T30 lag screws that hold the lift frame to the arm assembly.
11. Remove the hitch pin(s), the clevis pin(s), and the washers that fasten the recline strap(s) to the recline bar.
12. Lift the lift frame out of the chair shell and place it off to the side.
13. Use the 3/8 in. socket to remove the four (4) 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.

14. Stand behind the chair and pull the arms away from the chair being careful not to get the material snagged in the scissor mechanisms.
15. Place the arm assembly to the side.
16. 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.
17. Install the four (4) bolts that fasten each scissor mechanisms to the new arm assembly.
18. 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.

19. Place the lift frame onto the chair shell.
20. Use the hitch pin(s), the clevis pin(s), and the washers to fasten the recline strap(s) to the recline bar.
21. Use the eight (8) T30 lag screws to fasten the lift frame to the arm assembly.
22. Reinstall the staples that were removed in step 8.
23. Reinstall the wire clamp.
24. Gently turn the chair back over onto its legs.
25. Plug in the Smart Tek hand control to the extension cable.
26. Push forward on the disconnecting latch. Make sure it engages fully with the hand control plug base.
27. Clip the Smart Tek hand control to the black plastic hook on the side of the chair arm.
28. Plug the battery backup back into the control box.
29. Plug the transformer back into the wall outlet and test.

**Scissor Mechanism Replacement**

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

1. **WARNING** Unplug the transformer from the wall outlet.
2. Unplug the battery backup cable from the transformer.
3. Reach down into the chair’s side pocket until you feel the disconnect latch on the hand control extension.
4. Pull back on the disconnecting latch.
5. 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.
6. 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.
7. Unplug the transformer and the hand control extension from the motor (or control box.)
8. Remove the eight (8) T30 lag screws that hold the lift frame to the arm assembly.
9. Remove the hitch pin(s), the clevis pin(s), and the washers that fasten the recline strap(s) to the recline bar.
10. Remove the hand control extension wire clamp.
11. Lift the lift frame out of the chair shell and place it off to the side.
12. Use the 3/8 in. socket to remove the four (4) 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.

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. Use the Phillips screwdriver to remove the screws that fasten the scissor mechanism to the footboard.
16. Use the 3/8 in. socket to remove the bolts that fasten the scissor mechanism to the seat and to the footboard.
17. Use the 3/8 in. socket to install the bolts that fasten the new scissor mechanism to the seat and the footboard.
18. Use the Phillips screwdriver to install the screws that fasten the new scissor mechanism to the footboard.
19. Place the arm assembly in place so that the bolt holes in the scissor mechanisms line up with the bolt holes in the armrest.
20. Install the four (4) bolts that fasten each scissor mechanisms to the arm assembly.
21. 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.

22. Place the lift frame onto the chair shell.
23. Use the hitch pin(s), the clevis pin(s), and the washers to fasten the recline strap(s) to the recline bar.
24. Use the eight (8) T30 lag screws to fasten the lift frame to the arm assembly.
25. Reinstall the hand control extension wire clamp.
26. Plug the transformer and hand control extension into the motor or control box.
27. Plug the battery backup back into the transformer.
28. Plug the transformer back into the wall outlet and test.
29. Reinstall the seatback (if removed).

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

1. ⚠️ WARNING Unplug the transformer from the wall outlet.
2. Unplug the battery backup cable from the transformer.
3. Reach down into the chair’s side pocket until you feel the disconnect latch on the hand control extension.
4. Pull back on the disconnecting latch.
5. 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.
6. 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.
7. Remove the eight (8) T30 lag screws that hold the lift frame to the arm assembly.
8. Remove the hitch pin(s), the clevis pin(s), and the 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 in. socket to remove the four (4) 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. Use the 1/2 in. socket to remove the bolts that fasten the recline bar to the seat.
15. Use the 1/2 in. socket to install the bolts that fasten the new recline bar to the seat.
16. Place the arm assembly in place so that the bolt holes in the scissor mechanisms line up with the bolt holes in the armrest.
17. Install the four (4) bolts that fasten each scissor mechanisms to the arm assembly.
18. 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.

19. Place the lift frame onto the chair shell.
20. Use the hitch pin(s), the clevis pin(s), and the washers to fasten the recline strap(s) to the recline bar.
21. Use the eight (8) T30 lag screws to fasten the lift frame to the arm assembly.
22. Reinstall the hand control extension wire clamp.
23. Plug the battery backup back into the transformer.
24. 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 in. socket, and a stool or stand for placing the chair upside down.

1. **WARNING** Unplug the transformer from the wall outlet.
2. Unplug the battery backup cable from the transformer.
3. Reach down into the chair’s side pocket until you feel the disconnect latch on the hand control extension.
4. Pull back on the disconnecting latch.
5. 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.
6. 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.

7. Remove the eight (8) T30 lag screws that hold the lift frame to the arm assembly.
8. Remove the hitch pin(s), the clevis pin(s), and the 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 in. socket to remove the four (4) 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. Use the Phillips screwdriver to remove the screws that fasten the scissor mechanism to the footboard.
15. Use the 3/8 in. socket to remove the bolts that fasten the scissor mechanism to the seat and to the footboard.
16. Use the 1/2 in. socket to remove the bolts that fasten the recline bar to the seat.
17. Use the 1/2 in. socket to install the bolts that fasten the recline bar to the new seat.
18. Use the 3/8 in. socket to install the bolts that fasten the scissor mechanism to the new seat and the footboard.
19. Use the Phillips screwdriver to install the screws that fasten the new scissor mechanism to the footboard.
20. Place the arm assembly in place so that the bolt holes in the scissor mechanisms line up with the bolt holes in the armrest.
21. Install the four (4) bolts that fasten each scissor mechanisms to the arm assembly.
22. 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.

23. Place the lift frame onto the chair shell.
24. Use the hitch pin(s), the clevis pin(s), and the washers to fasten the recline strap(s) to the lift frame.
25. Use the eight (8) T30 lag screws to fasten the lift frame to the arm assembly.
26. Reinstall the hand control wire clamp.
27. Plug the motor(s), hand control extension, and battery backup into the control box.
28. Plug the battery backup back into the transformer.
29. 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. Unplug the battery backup cable from the transformer.
3. 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.
4. Remove the hitch pin, clevis pin(s), and washers that fastens 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 battery backup cable into the transformer.
11. Plug the transformer into the wall outlet and test.
12. Reinstall the seatback (if removed).
### Scissor Mechanism Parts

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RM621</td>
<td>3-Way Recliner Mechs</td>
</tr>
<tr>
<td>RM8300</td>
<td>2-Way Recliner Mechs</td>
</tr>
<tr>
<td>RM620</td>
<td>MaxiComfort Mechs</td>
</tr>
</tbody>
</table>

We do recommend both sides be replaced.
**Single Motor Electrical Diagram**

![Diagram of Single Motor Electrical System]

**REF #** | **PART NUMBER** | **DESCRIPTION** | **QTY.**
--- | --- | --- | ---
1* | ZK1200-HC | Hand Wand, 2 Button LED with Walnut Burl Grain | 1
1 | ZK-1100-HC | Hand Wand, 2 Button LED with Walnut Burl Grain | 1
2* | ZK-20-EXT | Hand Control Extension 62” Long | 1
2 | ZK-10-EXT | Hand Control Extension 62” Long | 1
3 | GM1500-LM | Motor Chair Led Non Transformer | 1
4 | GM1501-A | Motor Chair Transformer | 1
5 | GM1501-APUS | Transformer Cord | 1

**Smart Tek System**

* Asterisk designates the current style.
Dual Motor Electrical Diagram

<table>
<thead>
<tr>
<th>REF #</th>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
<th>QTY.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1*</td>
<td>ZK1200-HC</td>
<td>Hand Wand, 2 Button LED with Walnut Burl Grain</td>
<td>1</td>
</tr>
<tr>
<td>1</td>
<td>ZK-1100-HC</td>
<td>Hand Wand, 2 Button LED with Walnut Burl Grain</td>
<td>1</td>
</tr>
<tr>
<td>2*</td>
<td>ZK-20-EXT</td>
<td>Hand Control Extension 62” Long</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>ZK-10-EXT</td>
<td>Hand Control Extension 62” Long</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>GMOKI-28W</td>
<td>Okin 26-28 Wide Motor</td>
<td>2</td>
</tr>
<tr>
<td>4</td>
<td>GMOKI-CB</td>
<td>Motor Chair Okin 26-28 Wide Control Box 4/2003</td>
<td>2</td>
</tr>
<tr>
<td>5</td>
<td>GM1502L</td>
<td>Motor Chair Battery Back Up Wire with LED</td>
<td>1</td>
</tr>
<tr>
<td>6</td>
<td>GM1501-A</td>
<td>Motor Chair Transformer</td>
<td>1</td>
</tr>
<tr>
<td>7</td>
<td>GM1501-APUS</td>
<td>Transformer Cord</td>
<td>1</td>
</tr>
</tbody>
</table>

* Asterisk designates the current style.

Smart Tek System
Model: PR-501M-26D, PR-501L-26D, PR-501T-28D
### Triple Motor Electrical Diagram

#### REF # | PART NUMBER | DESCRIPTION | QTY.
--- | --- | --- | ---
1 | ZKAD-1 | Hand Wand Auto Drive for Lift Chairs | 1
2 | GM502YL | Y Connector for 502 | 1
3 | GMOKI-28W | Okin 26-28 Wide Motor | 2
4 | GMOKI1502-OM | Okin Motor, for 502 | 1
5 | GMOKI-CB | Motor Chair Okin 26-28 Wide Control Box 4/2003 | 1
6 | GM1501-A | Motor Chair Transformer | 2
7 | GM1501-APUS | Transformer Cord | 2

**Smart Tek System**  
Model: PR-502
Heat and Massage Electrical Diagram

HV3000 COMPLETE
RELAXOR DHV SYSTEM

REF # | PART NUMBER | DESCRIPTION | QTY.
--- | --- | --- | ---
1* | ZK-1200 | Hand Wand, 2 Button LED with Walnut Burl Grain | 1
1 | ZK-1100 | Hand Wand, 2 Button LED with Walnut Burl Grain | 1
2* | ZK-20-EXT | Hand Control Extension 62" Long | 1
2 | ZK-10-EXT | Hand Control Extension 62" Long | 1
3 | GM1500-LM | Motor Chair Led Non Transformer | 1
4 | GM1501-A | Motor Chair Transformer | 1
5 | GM1501-APUS | Transformer Cord | 1
6 | HV3001 | DHV Hand Control | 1
7 | HV3003 | Heat Unit | 1
8 | HV3004 | Massage Seat | 1
9 | HV3004B | Massage Back | 3
10 | HV3002-2 | Transformer | 1
11 | HV3005 | DHV Control Box | 1

*Asterisk designates the current style.  Smart Tek System - Models: All except PR200
<table>
<thead>
<tr>
<th>REF #</th>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
<th>QTY.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>HV3004</td>
<td>Massage Unit Assembly, Seat</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>HV3004B</td>
<td>Massage Unit Assembly, Back</td>
<td>3</td>
</tr>
<tr>
<td>3</td>
<td>HV3003</td>
<td>Heat Pad</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>ZKAD-1</td>
<td>Hand Wand Auto Drive for Lift Chairs</td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td>HV3005</td>
<td>Control Box</td>
<td>1</td>
</tr>
<tr>
<td>6</td>
<td>HV3001</td>
<td>Heat Massage Deluxe Hand Control</td>
<td>1</td>
</tr>
<tr>
<td>7</td>
<td>GM1500-LM</td>
<td>Motor Chair Okin Maxi Lift Motor</td>
<td>1</td>
</tr>
<tr>
<td>8</td>
<td>GM756R</td>
<td>Motor Chair Okin Maxi Recline Motor</td>
<td>1</td>
</tr>
<tr>
<td>9</td>
<td>ZK1100-EXT</td>
<td>Hand Control Extension</td>
<td>1</td>
</tr>
<tr>
<td>10</td>
<td>HV3002-2</td>
<td>Box Transformer 3 x 3 1/2 x 10</td>
<td>1</td>
</tr>
<tr>
<td>11</td>
<td>GM1501-A</td>
<td>Motor Chair Transformer</td>
<td>1</td>
</tr>
<tr>
<td>12</td>
<td>GM1501-APUS</td>
<td>Transformer Cord</td>
<td>1</td>
</tr>
</tbody>
</table>

**Smart Tek System**
# Trouble Shooting with Smart Tek


<table>
<thead>
<tr>
<th>Problem: Chair doesn't work, both LED lights are off.</th>
<th>Solution:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1. Check right angle plug is connected to the transformer.</td>
</tr>
<tr>
<td></td>
<td>2. Check the plug end of the transformer is plugged into the wall outlet.</td>
</tr>
<tr>
<td></td>
<td>3. Check the fuse or breaker to the wall outlet the chair is plugged into.</td>
</tr>
<tr>
<td></td>
<td>If all above are ok, defective transformer replace it.</td>
</tr>
<tr>
<td>Chair doesn't work, both LED lights are on.</td>
<td>1. Defective motor replace it.</td>
</tr>
<tr>
<td>Chair motor runs in one direction, both lights are on.</td>
<td>1. Defective hand control, replace it.</td>
</tr>
<tr>
<td>Chair doesn't work; LED on hand control is off.</td>
<td>1. Check the quick release connector is plugged in and locked in the chair pocket.</td>
</tr>
<tr>
<td></td>
<td>2. 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, replace hand control.</td>
</tr>
</tbody>
</table>

## Models: 501M26D, 501L26, 501T28

<table>
<thead>
<tr>
<th>Problem: Chair doesn't work, both LED lights are off.</th>
<th>Solution:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1. Check right angle plug is connected to the transformer.</td>
</tr>
<tr>
<td></td>
<td>2. Check the plug end of the transformer is plugged into the wall outlet.</td>
</tr>
<tr>
<td></td>
<td>3. Check the fuse or breaker to the wall outlet the chair is plugged into.</td>
</tr>
<tr>
<td></td>
<td>If all above are ok, defective transformer replace both.</td>
</tr>
<tr>
<td>Chair doesn't work, both LED lights are on.</td>
<td>1. Check motors are plugged into the control box. If all above are ok, defective control box or motors, both motors rarely go bad, replace the control box.</td>
</tr>
<tr>
<td>Chair motor runs in one direction, both lights are on.</td>
<td>1. Defective hand control, replace it.</td>
</tr>
<tr>
<td>Chair doesn't work; LED on hand control is off.</td>
<td>1. Check the quick release connector is plugged in and locked in the chair pocket.</td>
</tr>
<tr>
<td></td>
<td>2. Check the extension from the pocket is connected to the control box.</td>
</tr>
<tr>
<td></td>
<td>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, if problem is resolved send control box back.</td>
</tr>
</tbody>
</table>

## Model: 502

<table>
<thead>
<tr>
<th>Problem: Chair doesn't work, both LED lights are off.</th>
<th>Solution:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1. Check right angle plug is connected to the transformer.</td>
</tr>
<tr>
<td></td>
<td>2. Check the plug end of the transformer is plugged into the wall outlet.</td>
</tr>
<tr>
<td></td>
<td>3. Check the fuse or breaker to the wall outlet the chair is plugged into.</td>
</tr>
<tr>
<td></td>
<td>If all above are ok, defective transformers replace both.</td>
</tr>
<tr>
<td>Chair doesn't work, both LED lights are on.</td>
<td>1. Defective hand control, replace it.</td>
</tr>
<tr>
<td>Chair motor(s) run in one direction, both lights are on.</td>
<td>1. Check the quick release connector is plugged in and locked in the chair pocket.</td>
</tr>
<tr>
<td>Chair doesn't work; LED on hand control is off.</td>
<td>2. Check the extension from the pocket is connected to the control box.</td>
</tr>
<tr>
<td></td>
<td>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, if problem is resolved send control box back.</td>
</tr>
<tr>
<td>Chair works but slowly, hand control light is on and one of the Y connector lights is off.</td>
<td>1. Check right angle plug is connected to the transformer.</td>
</tr>
<tr>
<td></td>
<td>2. Check plug end of the transformer is plugged into the wall outlet.</td>
</tr>
<tr>
<td></td>
<td>3. Check power to the socket on the wall outlet the chair is plugged into. If all above are ok, defective transformer replace it.</td>
</tr>
</tbody>
</table>
LM5100 LIFT FRAME ASSEMBLY


See parts list for specific parts by model.
LM5100 LIFT MOTOR

See parts list for specific hand control part number.
## LM5100 Lift Frame Parts List

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Qty. Per Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>BB5003</td>
<td>Washer, 380 x 750 x 062 Nylon</td>
<td>2</td>
</tr>
<tr>
<td>BB5512</td>
<td>Pin, 3/8 x 1 5/8 Zinc Clevis</td>
<td>1</td>
</tr>
<tr>
<td>BB5514</td>
<td>Pin, Hitch</td>
<td>11</td>
</tr>
<tr>
<td>BB5515</td>
<td>Cap, 1&quot; Square End Chair</td>
<td>8</td>
</tr>
<tr>
<td>BB5518</td>
<td>Tywrap, 8&quot; Black</td>
<td>2</td>
</tr>
<tr>
<td>BB5530</td>
<td>Leg Leveler 5/16 x 1</td>
<td>4</td>
</tr>
<tr>
<td>BB5531</td>
<td>Pin, 3/8 x 2 1/2 Zinc Clevis</td>
<td>1</td>
</tr>
<tr>
<td>BB5535</td>
<td>Washer, 750 x 394 x 125 Nylon</td>
<td>6</td>
</tr>
<tr>
<td>BB5549</td>
<td>Washer, 400 x 750 x 312 Nylon</td>
<td>2</td>
</tr>
<tr>
<td>BB5566</td>
<td>Pin, 3/8 X 1 ¾ Zinc Clevis</td>
<td>4</td>
</tr>
<tr>
<td>BB5567</td>
<td>Pin, 3/8 X 2 5/8 Zinc Clevis</td>
<td>1</td>
</tr>
<tr>
<td>BB5579</td>
<td>Pin, 3/8 X 2 7/8 Zinc Clevis</td>
<td>4</td>
</tr>
<tr>
<td>BB5590</td>
<td>Washer, 400 x 750 x 312 Nylon</td>
<td>6</td>
</tr>
<tr>
<td>BB5591</td>
<td>Washer, 380 x 750 x 062 Nylon</td>
<td>2</td>
</tr>
<tr>
<td>BB5592</td>
<td>Washer, 400 x 750 x 312 Nylon</td>
<td>6</td>
</tr>
<tr>
<td>BB5593</td>
<td>Washer, 380 x 750 x 062 Nylon</td>
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</tr>
<tr>
<td>GM1500-LM</td>
<td>DC Inline Motor</td>
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<tr>
<td>LM5100</td>
<td>5100 Lift Frame</td>
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<tr>
<td>LM-RS5100</td>
<td>Recline Strap 5100 / 6111 Series Lift Frame</td>
<td>2</td>
</tr>
<tr>
<td>ZK1200-HC</td>
<td>Hand Wand, 2 Button LED with Walnut Burl Grain</td>
<td>1</td>
</tr>
<tr>
<td>ZKAD-1</td>
<td>Hand Wand Auto Drive for Lift Chairs</td>
<td>1</td>
</tr>
</tbody>
</table>

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

### Recline Bars for 5100 Lift Frame

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Qty. Per Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>RB5100-M-1</td>
<td>Recline Bar Medium / Small</td>
<td>1</td>
</tr>
</tbody>
</table>

### Recline Mechanisms for 5100 Lift Frame

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Qty. Per Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>RM621L</td>
<td>3 Way Mechanism Left Side</td>
<td>1</td>
</tr>
<tr>
<td>RM621R</td>
<td>3 Way Mechanism Right Side</td>
<td>1</td>
</tr>
<tr>
<td>RM8300L</td>
<td>2 Way Mechanism Left Side</td>
<td>1</td>
</tr>
<tr>
<td>RM8300R</td>
<td>2 Way Mechanism Right Side</td>
<td>1</td>
</tr>
</tbody>
</table>

LEFT AND RIGHT IS DETERMINED BY SITTING IN CHAIR

### Transformer for 5100 Lift Frame

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Qty. Per Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>GM1501-A</td>
<td>Motor Chair Transformer</td>
<td>1</td>
</tr>
<tr>
<td>GM1501-APUS</td>
<td>Transformer Cord</td>
<td>1</td>
</tr>
</tbody>
</table>

CALL TECHNICAL SERVICE FOR FABRIC, FOAM, SPRING AND WOOD PART NUMBERS AND PRICING
See parts list for specific parts by model.
LM5120 LIFT MOTOR ASSEMBLY

See parts list for specific hand control part number.
# LM5120 Lift Frame Parts List

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Qty. Per Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>BB5003</td>
<td>Washer, 380 x 750 x 062 Nylon</td>
<td>2</td>
</tr>
<tr>
<td>BB5512</td>
<td>Pin, 3/8 x 1 5/8 Zinc Clevis</td>
<td>1</td>
</tr>
<tr>
<td>BB5514</td>
<td>Pin, Hitch</td>
<td>11</td>
</tr>
<tr>
<td>BB5515</td>
<td>Cap, 1&quot; Square End Chair</td>
<td>8</td>
</tr>
<tr>
<td>BB5518</td>
<td>Tywrap, 8&quot; Black</td>
<td>2</td>
</tr>
<tr>
<td>BB5530</td>
<td>Leg Leveler 5/16 X 1</td>
<td>4</td>
</tr>
<tr>
<td>BB5531</td>
<td>Pin, 3/8 x 2 1/2 Zinc Clevis</td>
<td>1</td>
</tr>
<tr>
<td>BB5535</td>
<td>Washer, 750 x 394 x 125 Nylon</td>
<td>6</td>
</tr>
<tr>
<td>BB5549</td>
<td>Washer, 400 x 750 x 312 Nylon</td>
<td>2</td>
</tr>
<tr>
<td>BB5566</td>
<td>Pin, 3/8 X 1 ¾ Zinc Clevis</td>
<td>4</td>
</tr>
<tr>
<td>BB5567</td>
<td>Pin, 3/8 X 2 5/8 Zinc Clevis</td>
<td>1</td>
</tr>
<tr>
<td>BB5579</td>
<td>Pin, 3/8 X 2 7/8 Zinc Clevis</td>
<td>4</td>
</tr>
<tr>
<td>GM1500-LM</td>
<td>DC Inline Motor</td>
<td>1</td>
</tr>
<tr>
<td>LM5120</td>
<td>5120 Lift Frame</td>
<td>1</td>
</tr>
<tr>
<td>LM-RS5100</td>
<td>Recline Strap 5100 / 6111 Series Lift Frame</td>
<td>2</td>
</tr>
<tr>
<td>ZKAD-1</td>
<td>Hand Wand Auto Drive for Lift Chairs</td>
<td>1</td>
</tr>
<tr>
<td>ZK1200-HC</td>
<td>Hand Wand, 2 Button LED with Walnut Burl Grain</td>
<td>1</td>
</tr>
</tbody>
</table>

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

## RECLINE Bars for 5120 Lift Frame

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>RB5100-M-1</td>
<td>Recline Bar Medium / Small</td>
<td>1</td>
</tr>
<tr>
<td>RB5100-L-1</td>
<td>Recline Bar Large / 754</td>
<td>1</td>
</tr>
</tbody>
</table>

## Recline Mechanisms for 5120 Lift Frame

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>RM621L</td>
<td>3 Way Mechanism Left Side</td>
<td>1</td>
</tr>
<tr>
<td>RM621R</td>
<td>3 Way Mechanism Right Side</td>
<td>1</td>
</tr>
</tbody>
</table>

Left and Right is determined by sitting in chair.

## Transformer for 5120 Lift Frame

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>GM1501-A</td>
<td>Motor Chair Transformer</td>
<td>1</td>
</tr>
<tr>
<td>GM1501-APUS</td>
<td>Transformer Cord</td>
<td>1</td>
</tr>
</tbody>
</table>

Call Technical Service for fabric, foam, spring and wood part numbers and pricing.
LM6111 LIFT FRAME

For use in models: PR-501M26D, PR-501L26, PR-501T28
See parts list for specific parts by model.
LM6111 LIFT MOTOR

See parts list for specific hand control part number.
### LM6111 LIFT FRAME PARTS LIST

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Qty. Per Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>BB5003</td>
<td>Washer, 380 x 750 x 062 Nylon</td>
<td>4</td>
</tr>
<tr>
<td>BB5512</td>
<td>Pin, 3/8 x 1 5/8 Zinc Clevis</td>
<td>2</td>
</tr>
<tr>
<td>BB5514</td>
<td>Pin, Hitch</td>
<td>13</td>
</tr>
<tr>
<td>BB5515</td>
<td>Cap, 1&quot; Square End Chair</td>
<td>8</td>
</tr>
<tr>
<td>BB5518</td>
<td>Tywrap, 8&quot; Black</td>
<td>2</td>
</tr>
<tr>
<td>BB5530</td>
<td>Leg Leveler 5/16 X 1</td>
<td>6</td>
</tr>
<tr>
<td>BB5531</td>
<td>Pin, 3/8 x 2 1/2 Zinc Clevis</td>
<td>2</td>
</tr>
<tr>
<td>BB5535</td>
<td>Washer, 750 x 394 x 125 Nylon</td>
<td>4</td>
</tr>
<tr>
<td>BB5549</td>
<td>Washer, 400 x 750 x 312 Nylon</td>
<td>4</td>
</tr>
<tr>
<td>BB5566</td>
<td>Pin, 3/8 X 1 3/4 Zinc Clevis</td>
<td>4</td>
</tr>
<tr>
<td>BB5567</td>
<td>Pin, 3/8 X 2 5/8 Zinc Clevis</td>
<td>2</td>
</tr>
<tr>
<td>BB5582</td>
<td>Pin, 3/8 X 3 Zinc Clevis</td>
<td>4</td>
</tr>
<tr>
<td>GMOKI-28W</td>
<td>Motor Chair Okin 26-28 Wide Motor</td>
<td>2</td>
</tr>
<tr>
<td>GMOKI-CB</td>
<td>Motor Chair Okin 26-28 Wide Control Box 4/2003</td>
<td>1</td>
</tr>
<tr>
<td>GM1502L</td>
<td>LOW VOLTAGE POWER CORD (Extension wire low voltage)</td>
<td>1</td>
</tr>
<tr>
<td>LM6111</td>
<td>Dual Motor Lift Frame</td>
<td>1</td>
</tr>
<tr>
<td>LM-RS5100</td>
<td>RECLINE STRAP 5100 / 6111 SERIES LIFT FRAME</td>
<td>2</td>
</tr>
<tr>
<td>ZK1200-HC</td>
<td>Hand Wand, 2 Button LED with Walnut Burl Grain</td>
<td>1</td>
</tr>
</tbody>
</table>

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

### RECLINE BARS FOR 6111 LIFT FRAME

| RB6111      | DUAL MOTOR RECLINE BAR                                 | 1             |

### RECLINE MECHANISMS FOR 6111 LIFT FRAME

| RM621L      | 3 WAY MECHANISM LEFT SIDE HEAVY DUTY                    | 1             |
| RM621R      | 3 WAY MECHANISM RIGHT SIDE HEAVY DUTY                   | 1             |

LEFT AND RIGHT IS DETERMINED BY SITTING IN CHAIR

### TRANSFORMER FOR 6111 LIFT FRAME

| GM1501-A    | Motor Chair Transformer                               | 1             |
| GM1501-APUS | Transformer Cord                                      | 1             |

CALL TECHNICAL SERVICE FOR FABRIC, FOAM, SPRING AND WOOD PART NUMBERS AND PRICING
LM5000C LIFT FRAME ASSEMBLY

For use in model: PR-200
See parts list for specific parts by model.
LM5000C LIFT MOTOR

See parts list for specific hand control part number.
# LM5000C Lift Frame Parts List

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Qty. Per Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>BB5003</td>
<td>Washer, 380 x 750 x 062 Nylon</td>
<td>2</td>
</tr>
<tr>
<td>BB5512</td>
<td>Pin, 3/8 x 1 5/8 Zinc Clevis</td>
<td>1</td>
</tr>
<tr>
<td>BB5514</td>
<td>Pin, Hitch</td>
<td>11</td>
</tr>
<tr>
<td>BB5515</td>
<td>Cap, 1&quot; Square End Chair</td>
<td>8</td>
</tr>
<tr>
<td>BB5518</td>
<td>Tywrap, 8&quot; Black</td>
<td>2</td>
</tr>
<tr>
<td>BB5530</td>
<td>Leg Leveler 5/16 X 1</td>
<td>4</td>
</tr>
<tr>
<td>BB5531</td>
<td>Pin, 3/8 x 2 1/2 Zinc Clevis</td>
<td>1</td>
</tr>
<tr>
<td>BB5535</td>
<td>Washer, 750 x 394 x 125 Nylon</td>
<td>6</td>
</tr>
<tr>
<td>BB5549</td>
<td>Washer, 400 x 750 x 312 Nylon</td>
<td>2</td>
</tr>
<tr>
<td>BB5566</td>
<td>Pin, 3/8 x 3 1/2 Zinc Clevis</td>
<td>4</td>
</tr>
<tr>
<td>BB5567</td>
<td>Pin, 3/8 x 2 5/8 Zinc Clevis</td>
<td>1</td>
</tr>
<tr>
<td>BB5579</td>
<td>Pin, 3/8 x 2 7/8 Zinc Clevis</td>
<td>4</td>
</tr>
<tr>
<td>GM1500-LM</td>
<td>DC Inline Motor</td>
<td>1</td>
</tr>
<tr>
<td>LM5000C</td>
<td>5000C Lift Frame</td>
<td>1</td>
</tr>
<tr>
<td>LM-RS5100</td>
<td>RECLINE Strap 5100 / 6111 SERIES Lift Frame</td>
<td>2</td>
</tr>
<tr>
<td>ZK1200-HC</td>
<td>Hand Wand, 2 Button LED with Walnut Burl Grain</td>
<td>1</td>
</tr>
</tbody>
</table>

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

## Recline Bar for 5000C Lift Frame

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Qty. Per Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>RB4000-CB</td>
<td>Recline Bar Capri</td>
<td>1</td>
</tr>
</tbody>
</table>

## Recline Mechanisms for 5100 Lift Frame

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Qty. Per Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>RM8300L</td>
<td>2 Way Mechanism Left Side</td>
<td>1</td>
</tr>
<tr>
<td>RM8300R</td>
<td>2 Way Mechanism Right Side</td>
<td>1</td>
</tr>
</tbody>
</table>

LEFT AND RIGHT IS DETERMINED BY SITTING IN CHAIR

## Transformer for 5100 Lift Frame

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Qty. Per Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>GM1501-A</td>
<td>Motor Chair Transformer</td>
<td>1</td>
</tr>
<tr>
<td>GM1501-APUS</td>
<td>Transformer Cord</td>
<td>1</td>
</tr>
</tbody>
</table>

CALL TECHNICAL SERVICE FOR FABRIC, FOAM, SPRING AND WOOD PART NUMBERS AND PRICING
LM502 LIFT FRAME

For use in model: PR-502
LM502 ELECTRICAL CONNECTION
RM502 RECLINE MECHANISM
# LM502 LIFT FRAME PARTS LIST

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Qty. Per Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>BB5506</td>
<td>1/4&quot; LOCK WASHER</td>
<td>17</td>
</tr>
<tr>
<td>BB5514</td>
<td>HAIR PIN</td>
<td>12</td>
</tr>
<tr>
<td>BB5530</td>
<td>5/16 X 1 LEG LEVELER</td>
<td>13</td>
</tr>
<tr>
<td>BB5535</td>
<td>1/8 NYLON PLASTIC WASHER</td>
<td>6</td>
</tr>
<tr>
<td>BB5548</td>
<td>5/16&quot; X 3&quot; TAP BOLT GRADE 5 (to attach lift frame to chair)</td>
<td>4</td>
</tr>
<tr>
<td>BB5549</td>
<td>3/8 NYLON PLASTIC WASHER</td>
<td>4</td>
</tr>
<tr>
<td>BB5554</td>
<td>5/16&quot; NYLON LOCK NUT</td>
<td>6</td>
</tr>
<tr>
<td>BB5583</td>
<td>1 1/4&quot; X 1 1/4&quot; END CAP</td>
<td>12</td>
</tr>
<tr>
<td>BB5584</td>
<td>1/2&quot; X 1/2&quot; SHOULDER BOLT</td>
<td>2</td>
</tr>
<tr>
<td>BB5585</td>
<td>1/2&quot; X 3 1/4&quot; CLEVIS PIN</td>
<td>2</td>
</tr>
<tr>
<td>BB5586</td>
<td>1/2&quot; X 2 1/2&quot; SHOULDER BOLT</td>
<td>2</td>
</tr>
<tr>
<td>BB5587</td>
<td>3/8&quot; X 1 1/4&quot; SHOULDER BOLT</td>
<td>1</td>
</tr>
<tr>
<td>BB5588</td>
<td>3/8&quot;-16 NYLON LOCK NUT</td>
<td>4</td>
</tr>
<tr>
<td>BB5589</td>
<td>3/8&quot; X 1 3/4&quot; SHOULDER BOLT</td>
<td>3</td>
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<tr>
<td>BB5590</td>
<td>3/8&quot; X 2 1/2&quot; SHOULDER BOLT</td>
<td>2</td>
</tr>
<tr>
<td>BB5591</td>
<td>5/16&quot; X 1 1/2&quot; HEX CAP SCREW (to attach back to mechanism)</td>
<td>2</td>
</tr>
<tr>
<td>BB5592</td>
<td>5/16&quot; X 2&quot; HEX CAP SCREW 9 to (to attach back to mechanism)</td>
<td>4</td>
</tr>
<tr>
<td>BB5593</td>
<td>NYLON WASHER .750 X .502 X .1875</td>
<td>8</td>
</tr>
<tr>
<td>BB5594</td>
<td>NYLON WASHER 1.25 X .502 X .0625</td>
<td>2</td>
</tr>
<tr>
<td>BB5596</td>
<td>1/2&quot; X 4&quot; CLEVIS PIN</td>
<td>4</td>
</tr>
<tr>
<td>BB5597</td>
<td>1/2&quot; X 2 1/2&quot; CLEVIS PIN</td>
<td>2</td>
</tr>
<tr>
<td>BB5598</td>
<td>1/2&quot; X 2 1/4&quot; CLEVIS PIN</td>
<td>4</td>
</tr>
<tr>
<td>BB5599</td>
<td>5/8&quot; X 1/2&quot; X 1/2&quot; BUSHING</td>
<td>28</td>
</tr>
<tr>
<td>BB5599KIT</td>
<td>BUSHING KIT FOR 502</td>
<td>1</td>
</tr>
<tr>
<td>GMOKI-28</td>
<td>26-28 WIDE MOTOR</td>
<td>2</td>
</tr>
<tr>
<td>GMOKICB</td>
<td>26-28 WIDE CONTROL BOX</td>
<td>1</td>
</tr>
<tr>
<td>GMOKI1502OM</td>
<td>SINGLE MOTOR 502</td>
<td>1</td>
</tr>
<tr>
<td>GM502Y</td>
<td>Y CONNECTOR</td>
<td>1</td>
</tr>
<tr>
<td>LIFT-502</td>
<td>COMPLETE 502 LIFT FRAME ASSEMBLY (Recline bar not included)</td>
<td>1</td>
</tr>
<tr>
<td>LM502</td>
<td>502 LIFT FRAME</td>
<td>1</td>
</tr>
<tr>
<td>LM5021</td>
<td>TOP PIECE 502 LIFT FRAME</td>
<td>1</td>
</tr>
<tr>
<td>LM5022</td>
<td>STRAIGHT BAR 502 LIFT FRAME</td>
<td>1</td>
</tr>
<tr>
<td>LM5023</td>
<td>H-BAR 502 LIFT FRAME</td>
<td>1</td>
</tr>
<tr>
<td>LM5024</td>
<td>BASE PIECE 502 LIFT FRAME</td>
<td>1</td>
</tr>
<tr>
<td>RS502</td>
<td>RECLINE STRAP 502 LIFT FRAME</td>
<td>4</td>
</tr>
<tr>
<td>ZKAD-1</td>
<td>Hand Wand Auto Drive for Lift Chairs</td>
<td>1</td>
</tr>
</tbody>
</table>

## RECLINE BAR FOR 502 LIFT FRAME

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Qty. Per Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>RB502</td>
<td>RECLINE BAR FOR 502 CHAIR</td>
<td>1</td>
</tr>
</tbody>
</table>

## RECLINE MECHANISM FOR 502 LIFT FRAME

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Qty. Per Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>RM502BR</td>
<td>BACK RECLINE MECHANISM 502</td>
<td>1</td>
</tr>
<tr>
<td>RM502LH</td>
<td>RECLINE MECHANISM LEFT SIDE 502</td>
<td>1</td>
</tr>
<tr>
<td>RM502RH</td>
<td>RECLINE MECHANISM RIGHT SIDE 502</td>
<td>1</td>
</tr>
</tbody>
</table>

**LEFT AND RIGHT IS DETERMINED BY SITTING IN CHAIR**

## TRANSFORMER FOR 502 SERIES LIFT FRAME

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Qty. Per Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>GM1501-A</td>
<td>Motor Chair Transformer</td>
<td>2</td>
</tr>
<tr>
<td>GM1501-APUS</td>
<td>Transformer Cord</td>
<td>2</td>
</tr>
</tbody>
</table>

**CALL TECHNICAL SERVICE FOR FABRIC, FOAM, SPRING AND WOOD PART NUMBERS AND PRICING**
Lift Frame Replacement (PR-906 only)

1. **WARNING** Unplug the transformer from the wall outlet.
2. Gently push the chair over onto the footrest.
3. Lift material on the bottom of the chair back away from the Velcro strip.
4. Disconnect the red and green vibrator connectors.
5. Unlatch both back hinges and lift the back up and off the chair.
6. Unplug the motor, hand control extension, and battery backup from the control box.
7. Remove the four (4) ¼-20 x 2 ½" bolts; two (2) per side that hold the lift frame to the arm assembly and retain for reassembly.
8. Lift the lift frame out of the chair shell.
9. Remove the four (4) bolts that fasten the footrest to the lift frame and retain for reassembly.
10. Place the new lift frame into the chair shell.
11. Reinstall the four (4) ¼-20 x 2 ½" bolts; two (2) per side to secure the lift frame.
12. Reinstall the four (4) bolts; two (2) per side to reattach the foot rest.
13. Reconnect the motor, hand control extension, and battery backup to the control box.
14. Align both back hinges, connect the red and green vibrator connectors, and push the back down until it locks into place.
15. Reposition the material on the bottom of the chair back and connect to Velcro strip.
16. Turn the chair over onto the lift frame.
17. Plug the transformer into the wall outlet and test.
Lift Motor Replacement (PR-906 only)

1. **WARNING** Unplug the transformer from the wall outlet.
2. Gently push the chair over onto the footrest.
3. Unplug the motor from the hand control extension and the transformer.
4. Remove the four (4) bolts; two (2) per side from the front motor mount and retain hardware for reassembly.
5. Remove the hitch pin and the clevis pin from the rear motor mount that fastens the bottom of the motor to the lift frame. Retain hitch pin and clevis pin for reassembly.
6. Remove the motor from the lift frame.
7. Align the new motor into place and use the hitch pin and clevis pin to fasten the bottom of the new motor to the lift frame.
8. Use the four (4) bolts and hardware retained in step 4 to fasten the top of the lift motor to the lift frame.
9. Connect the new motor to the hand control extension and the transformer.
10. Turn the chair over onto the lift frame.
11. Plug the transformer into the wall outlet and test.
See parts list for specific parts by model.
**Power Connections**

**Step 1.** Plug the lift chair into a standard (115-120VAC) wall outlet.

**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 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 onto the studs and tighten securely using the supplied wrench or a 7/16" box wrench. Return the chair to the seated upright position by pressing the up arrow on the hand control.

**Step 5.** Attach the bottom of the outside back to the Velcro on the arm cross rail.


**Back Installation:**

**Models:** PR-501M-26D, PR-501L-26D, PR-501T-28D
MaxiComfort Back Installation:

**Models:** PR-756MC, PR-756L, PR-506, PR-505JP, PR-505S, PR-505M, PR-505L, PR-510

**Step 1.** Plug the lift chair into a standard (115-120VAC) wall outlet.
**Step 2.** Press the chair 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 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 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 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 chair up arrow 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)


Note: For individual switch functions on each hand control, refer to the owner’s manuals.
Hand Controls (Lift & Recline) - Continued


Heat & Massage Only - Hand Control

Press PWR to turn On or Off.
15 Minute Timer: Single Press (GREEN)
30 Minute Timer: Press & Hold (ORANGE)

Press LO or HI to turn HEAT ON or OFF.
Independent 30 Minute Timer.

Press any or all ZONE keys to turn any ZONE On or Off.

Press SELECT, WAVE, or PULSE for desired operating mode.

Press – (Left) to decrease or + (Right) to increase INTENSITY and SPEED.

*Models: All except Capri.
Far Infrared Heat Only – Hand Control

• Press ON and the temperature light will turn on. Controller is pre-set to a low/medium heat level and a 60 minute session.

• Once turned ON, it will display the session time and will count down from the pre-set 60 minutes.

• The temperature level can be adjusted by pressing the up or down arrows, up for more heat, down for less heat.

• The time can only be adjusted when the Controller is OFF.

• Use the MODE button to set the time setting.

• Adjust your time by using the up and down arrows press while the time light is on, up to increase time and down to set less time. Adjustments are in 15 minute increments.

• By pressing the MODE button a second time, the display will return to the temperature setting for any future adjustments.

• After setting the desired time and temperature, the system will be ready to use when you press the ON/OFF button. A heater light will indicate that the system is on and working. When your session is complete the light will go off and the controller will display your heat level.

• For your convenience, the controller will default to the previous setting upon your next use. While it is suggested that the preset temperature, the second grade, and 60 minutes’ working time is the best choice, you can set the temperature and time in accordance with your own personal demands.

• Finally, the electrical power should be turned off after use.

*Models: All with Far Infrared Heat.

* Hand Control models currently being used.
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
Lift Chair Cut Away

Bottom View

Note: The above illustrations are intended as general information. They do not represent all models in this manual.
Assembled Lift Chair Boxing Instructions

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

Place bag over chair.

Place bottom tray on floor with foam in opening facing up.

Place chair into bottom tray.

With the Golden Technologies name in the upright position, place the sleeve over the chair and into the bottom tray.

Note: Use approved 3” packaging tape.

Place top tray onto the sleeve with opening facing down, then tape along each edge, 360 degrees around the top and bottom trays as shown.

Note: Banding can be used in place of tape if available.
Place bands vertically around top and bottom trays and secure only after all packaging steps are complete.
Lift Chair Boxing Instructions with Back Off

Construct the box for the transformer, (1, 2, 3). Place transformer in box (4) & tape it closed (5).

Wrap the long flap of the transformer box around the frame as shown. Then tape it so it is secure.

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.

Note: Use approved 3" packaging tape.

Carefully turn the box over so that it is in the upright position.

Place the bottom tray onto the sleeve with the opening facing down, then tape along each edge, 360 degrees around the top and bottom trays as shown.

Note: Banding can be used in place of tape if available. Place bands vertically around top and bottom trays and secure.