Repair Instructions

PowerReclineXR & XR+ Reclina-Rocker® Drive Toggle Replacement

Please read through all instructions prior to beginning the repair.

Tools & Supplies Required:
- Slotted Screwdriver
- Wire Cutters
- T-30 Torx Driver
- 7/16” Wrench
- T-30 Allen Wrench
- Power Driver
- T-30 Torx Bit
- Staple Puller
- Needle Nose Pliers
- File
- Drop Cloth
- White Lithium Grease, NLGI Grade 2
- Required Source: Sta-Lube SL3155
- Clean Cloth or Paper Towels
- (2) Legrest Swing Bushings
  - (necessary if damaged during removal)
- Staple Gun
- 3/8” Staples

⚠️ CAUTION – Risk of injury:
Always wear safety goggles or glasses when completing repairs.

Note: Illustrations show a standard-width PowerReclineXR recliner.

Drive Toggle Removal:

⚠️ DANGER – Risk of electric shock, serious injury or death:
Unplug the transformer from the wall outlet, and disconnect from the connector behind the chair before servicing the unit.

1. Unplug the 120 volt power cord from the wall outlet of the unit to be serviced. Disconnect power transformer from the recliner.

2. When repairing a left or right arm recliner (P4L or P4R), disconnect the recliner to be serviced from the console unit.

3. Using a slotted screwdriver, unlock the back brackets and remove the upholstered back. If needed, refer to Replacing a Back for back removal and installation instructions.

   Note: If repairing a PowerReclineXR+, lift up the back only high enough to disconnect the headrest and lumbar actuator assembly cables (blue and gray). Once disconnected, remove the back.

4. Gently roll the recliner forward, onto a clean protective surface to rest on the arm(s), and gain access to the underside of the unit.

5. Connect the power transformer to the recliner and plug the 120 volt power cord directly into a wall outlet.

6. Use hand wand, pushing the "both" button, to slightly open the legrest and recline the back to relax the mechanism.

7. Unplug the 120 volt power cord from the wall outlet of the unit to be serviced. Disconnect power transformer from the recliner.

8. Remove both actuators and the drive toggle connector. If needed, refer to PowerReclineXR & XR+ Reclina-Rocker® Legrest Actuator Replacement and PowerReclineXR & XR+ Reclina-Rocker® Back Recline Actuator Replacement.

9. Using a T-30 torx driver, remove the two trilobular pan head screws and legrest swing bushings, one on each side, connecting the legrest subassembly to the rear swing. Refer to the image at the top, left column on the following page.
10. Using a 7/16" wrench, remove the two ¼-20 hex nuts and washers connecting the two drive links to the drive rod.

12. Rotate the drive rod toward the back of the recliner to access the two truss head screws. Remove both screws using a power driver and a T-30 torx bit.

13. Use a staple puller to remove the upholstery staples securing the arm cover to the left side sitting bottom rail and rear body side panel. Remove enough staples to loosen the upholstery and gain access to the drive rod. If the style includes outside arm polyurethane foam, remove the staples securing the foam. Refer to the image below and the two at the top, left column on the following page.
15. Gently pull back the cover to expose the end of the drive rod.

16. Disconnect the two drive connection links from the swing connection assembly. Rotate the drive rod to gain access to the fasteners. Using a T-30 Allen wrench and a 7/16" wrench, remove the truss head screw, shoulder bushing and hex nut attaching each link. Refer to image at top, right column.

17. With a small drop cloth in place, carefully rub your finger over the screw holes in the drive rod. If you feel any burrs, use a file to smooth the surface.

18. Take note of the drive rod assembly before moving the drive rod over and working the parts off the rod. Depending on the date of manufacture, some standard width recliners include large and medium bearings on the rod to keep the parts in position, as shown in the image below. (All wide width recliners have five large bearings on either side of the drive toggle.) *All other images in this instruction are of a recliner that did not include the bearings.*
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19. Carefully start to work the drive rod out through the exposed side of the unit, working the parts off the drive rod until the drive toggle is removed and the drive rod clears the swing connection assembly, so that it can be moved out of the way.

   Note: Often times in manufacturing a rubber band is placed on the end bearings to aid in the assembly. If there is resistance when moving the drive rod over, check for fragments of rubber band at the ends of the drive rod and remove them.

20. Slide the drive rod support link and spacing links off the drive toggle, and remove the assembly.

21. Remove the hairpin clip from the actuator pin connecting the drive toggle to the motor clevis mount. Remove the actuator pin to disassemble the drive toggle from the motor clevis mount.

   **Drive Toggle Replacement:**

   1. Apply a liberal amount of white lithium grease to the outside of the bearings on the drive toggle.

   2. Slide the spacing links and the drive rod support link onto the drive toggle. Orient the drive toggle so the "relief point" faces the back of the recliner, toward the rear seat rail.
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3. Insert the swing connection assembly onto the drive rod. Add (1) large and (2) medium bearings to standard width recliners, if applicable, and five large bearings to wide width recliners. Refer to the image in the lower right column of page 3.

4. Align the "90° bend" of the left side sitting drive connection link with the actuator pin hole on the drive toggle. With the 1" (longer) bearing on the drive toggle facing the left side sitting, work the drive rod through the drive toggle. Add (2) medium bearings and (1) large to standard width recliners, if applicable, and five large bearings to wide width recliners between the drive toggle and the right side sitting of the swing connection assembly. Refer to the image in the lower right column of page 3 for bearing placement.

5. Insert the right drive link, in the 12 o'clock position, onto the drive rod.

6. Work the drive rod through the right side sitting rear swing.

7. Continue to work the drive rod over until it is inserted in the bearing in the right side sitting body side panel.

8. Align the (2) holes in the drive links with the (2) holes in the drive rod and secure with (2) truss head screws. Torque fasteners to 4.5—5 ft-lbs.
9. Move the rear swing to align to the drive link. Hook the extension spring to the drive link and rear swing, both sides. 

Note: The "90° bend" of the drive link will rest on the rear swing when properly aligned.

10. Place a spacer washer on each screw and secure with a ¼-20 hex nut. Tighten with a 7/16" wrench. Torque nuts to 4.5–5 ft-lbs.

11. Rotate the swing connection assembly forward. Insert the shoulder bushing into the drive connection link, with the shoulder of the bushing facing the inside of the mechanism. Align the drive connection link to the swing connection assembly and secure the connection with a ¼-20 truss head screw and a ¼-20 hex nut. Tighten with a 7/16" wrench. Torque nut to 4.5—5 ft-lbs. Repeat for connection on other side. Refer to images at top, left column.

12. Align the rear swing and the legrest subassembly. Insert a legrest swing bushing through the rear swing to the legrest subassembly making sure the bushing is fully seated. Use a T-30 torx driver and a 14-10 trilobular pan head screw to secure the connection. Torque fastener to 40 +/- 10 in-lbs.

Note: Use a new legrest swing bushing if the original was damaged during removal.
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Note: Steps 14-17 are in the drive toggle connector replacement instructions.

14. Apply a liberal amount of white lithium grease to the swing lever where the shaft of the drive toggle connector travels.

15. Orient the drive toggle connector to the mechanism assembly so the tabs face outward, away from the actuator. Then insert the shaft of the drive toggle connector through the swing lever, and align the opposite end to the motor clevis mount.

16. Insert the actuator pin to join the drive toggle connector to the motor clevis mount. Insert hairpin clip to secure the connection.

17. Wipe off excess grease from all greased connections.

Finish Assembly:

1. Reattach the polyurethane foam (applicable styles) and arm cover to the body side panel and bottom rail using 3/8" staples. Pull the foam and cover tight to remove any wrinkles. Be sure to fold the edge of the cover and align sew seams (if applicable) with the frame edge.

2. Return the unit to its upright position.

3. Lay the back on the body. If repairing a PowerReclineXR+, carefully rotate the back until the actuator cables are able to reach the connectors. Connect the corresponding blue and gray connectors making sure they are fully seated and the locking covers are closed.

Lift the back at a slight angle and align the brackets on the back with the brackets on the body. Lower the back onto the body, making sure that both sets of brackets are engaged. Push down the locking levers with a slotted screwdriver to lock the brackets. Refer to Replacing a Back work instruction if needed.

4. If repairing a left or right arm recliner, connect the recliner to the console unit.

5. Connect power transformer to the recliner.

6. Plug the 120 volt power cord directly into a wall outlet.

7. Test functionality through full range of motion of each button (BACK, LEGREST and BOTH).

**DANGER** – Risk of electric shock, serious injury or death:
Plug directly into a wall outlet. Do not use an extension cord or adapter.

6. Apply a liberal amount of white lithium grease to the swing lever where the shaft of the drive toggle connector travels.

15. Orient the drive toggle connector to the mechanism assembly so the tabs face outward, away from the actuator. Then insert the shaft of the drive toggle connector through the swing lever, and align the opposite end to the motor clevis mount.

16. Insert the actuator pin to join the drive toggle connector to the motor clevis mount. Insert hairpin clip to secure the connection.

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2. Return the unit to its upright position.

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Lift the back at a slight angle and align the brackets on the back with the brackets on the body. Lower the back onto the body, making sure that both sets of brackets are engaged. Push down the locking levers with a slotted screwdriver to lock the brackets. Refer to Replacing a Back work instruction if needed.

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Pour l’assistance en français, appelez votre représentante de service à la clientèle.