



SEAT HEIGHT: The 91X ALX Air Suspension Seat has five (5) inches of vertical height adjustment. Seat height adjustment knob is located on the front left edge of the seat cushion. Pulling the knob out releases air pressure, this decreases height. Pushing the knob in increases the seat height.

SEAT TILT: The 91X ALX seat cushion angle can be adjusted eight (8) degrees by turning the seat tilt knobs located in the center of the seat cushion. Seat tilt is independent of seat height adjustment. This allows full tilt range at all seat heights.

SLIDE (MANUAL): The entire seat can be adjusted 6.25-11.8 inches front to back. Raising the slide handle located at the seat front below the rubber bellow releases the lock and lets the seat move front/back.

SLIDE (AIR SLIDE): Air slide release button is located on the switchbox that controls the seat lumbar. Press the red button to release the slides, move the seat to the desired location and release the button. Slides will automatically lock in place.

REPLACE SLIDES OR SLIDE HANDLE:

1. Slides are connected to the bottom of seat by screws on each end of the slide. Undo screws to replace slide tracks. Apply semi permanent thread locker such as (Loctite 242) before installing screws.
2. Insert slide handle by fitting each side onto the two (2) tabs on the slide tracks.

LUMBAR SUPPORT: Air lumbar switches are located on the switch box on the side of the seat. Pushing the switches increases or decreases the amount of lumbar support. The lumbar system is operated via regulated vehicle air supply (regulator is internal to supplied suspension).

SEAT CUSHION REPLACEMENT:

1. Lower the rubber bellow. Remove the black plastic rivets that hold it up. The rivets are simple push pins that are removed by prying them out with a flat screwdriver. Be careful not to tear the plastic so the rivets may be reused. If the bellow is glued, use a sharp chisel to separate the bellow from the suspension.
2. Remove the seat tilt knobs.
3. To remove old cover release three secured flaps by using a flat screwdriver. Pry the flaps downward to release plastic strips from metal runners. Note how they fit into the runners.
4. Put on new covers. Beginning at the front, slip the plastic strip that is sewn on the replacement cover under the metal runner. Next, do both sides by fitting the plastic strips under each runner. Last, secure the back of the replacement cover to the seat by the plastic rivets. Locate the holes with a center punch and pierce the fabric before inserting the plastic rivets.
5. Replace the rubber bellow and reinsert the plastic rivets.
6. Reattach knobs.

REPLACE AIR LUMBAR BAGS:

1. Remove cover and back foam to expose lumbar bags.
2. Drill the rivets securing air lumbar bag(s) to the back frame.
3. Remove defective lumbar bag(s) from metal back frame plate.
4. Replace with new bag(s) and replace mounting rivets.
5. Replace foam and cover.

SEAT BACK COVER REPLACEMENT:

1. Remove headrest.
2. Remove backshell.
3. Remove the back from the seat: Two (2) screws are located on each side of the back base.
4. Disconnect air lines to the back.
5. Remove cover: Release J hook by pressing cushion toward the frame then remove center panel by slow, even pulling. The center panel is held in place by Velcro on the top, sides and bottom.
6. Replace cover: Beginning with the cape, reattach J hook to the back frame and pull the upholstery over the edges.
7. Firmly attach the loop strips on the upholstery to the hook in the foam. Adjust foam and upholstery as needed and attach loop and hook at the bottom edge.
8. Reattach back to seat. Reattach air lines, backshell and headrest.

MOUNTING AND REMOVING SEAT FROM RISER:

1. Disconnect the air hose.
2. Slide the seat back and remove the two (2) screws that are connecting slide with the riser.
3. Slide the seat forward and perform the same operation as step 2 to the rear screws.

PREVENTATIVE MAINTENANCE FOR BASE:

1. Check to see if there is any loose hardware.
2. Check slide track for any obstructing objects.

USSC 91X ALX TROUBLESHOOTING GUIDE

PROBLEM	POSSIBLE CAUSE	CORRECTIVE ACTION
Suspension bounces excessively	Shock absorber seals worn	Replace both shocks
Air leaks from seat	Air line is leaking at connector	Tighten or reconnect at fitting
	Air line is cut	Replace air line
	Height adjustment valve is leaking	Replace valve
	Regulator is leaking	Tighten body or replace
	Air valve for bolsters or lumbar leaking	Replace valve
Lumbar or bolster bag deflates	Hole in bag	Replace bags
	Air line is leaking at connector	Tighten/reconnect at fitting
	Air line is cut	Replace air line
	Air valve is leaking	Replace valve
Lumbar or bolster bag will not inflate	Faulty regulator	Replace regulator
	Air valve is leaking	Replace valve
	Air line disconnected at the rear of back	Reconnect
Air slide release not functioning	Air line is leaking at connector	Tighten/reconnect at fitting
	Air line is cut	Replace air line
	Air valve is leaking	Replace valve
	Pinched air line	Reroute air line
	Air cylinder not functioning	Replace air cylinder
Height adjustment not functioning	Height adjustment knob missing	Replace knob
	Inadequate air supply	Check air supply pressure
	Pinched air line	Reroute air line
	Faulty valve	Replace valve
	Air spring leaks	Replace air springs
Knob comes off	Backing nut not tight	Tighten securely
Alarm pad not functioning	Faulty warning	Check electrical connections

RECOMMENDED SEAT MAINTENANCE

In general the seat will require little maintenance. Following are scheduled inspections and maintenance.

<u>Frequency</u>	<u>Inspection</u>
Daily	Check that the seat functions are not obstructed by foreign objects. Check belt function & condition. Look for webbing cuts.
Weekly	Check seat functions. Repair as required. Fore/aft Height Seat rake Back recline Lumbar Bolsters Air valve Seat belt Check upholstery. If torn or soiled, replace.
Monthly	Check fore/aft slides. If more than 1mm “play”, replace assembly. Otherwise grease the slide tracks. Check shock absorbers. If seat “bounces” too much, replace both shock absorbers. Check seat anchorage to vehicle. Seat should be securely fastened to vehicle floor. Check backrest and bearing bolts. Clean the backshell and upholstery by wiping with mild soap and warm water. Surface cleaners not harmful to vinyl and ABS plastic are acceptable alternatives.