

LA 45 COMPO: FRONT RADIUS ROD BRACKET

INSPECTION AND REWORK



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Property name and top bus number: LA 45CLFW, 95000, 218000, 269000, 286000



Issue: Loose bolts at the front lower radius rod mounting bracket.

Reason/ cause: There are two bolts/nuts with no access for re-torquing.

Solution: Cut access opening per this SOI (only if bolts were found loose).

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Number of affected buses: As required

Estimate repair hours/bus: 15 min to check the torque values,
1 hour if SS bolts are loose and ramp needs to be removed,
2 hours if access holes need to be cut,

Necessary parts:

Plate, mounting, drain,	Part #: 804-4055-912 ,	2 / bus if bolts were found loose,
Screw, #10x3/4, SS, PH,	Part #: 02259-94816 ,	8 / bus if bolts were found loose,
Plexus MA-425,	Part #: 5016135 ,	as required (to seal edges of new access slot)

Necessary tools: 24 mm wrench and socket, 10 mm Allen socket (for radius rod mounting bolt), torque wrench capable for 150 lb-ft, cutting, grinding and sanding wheels with high speed air tools suitable for fiberglass, Plexus gun

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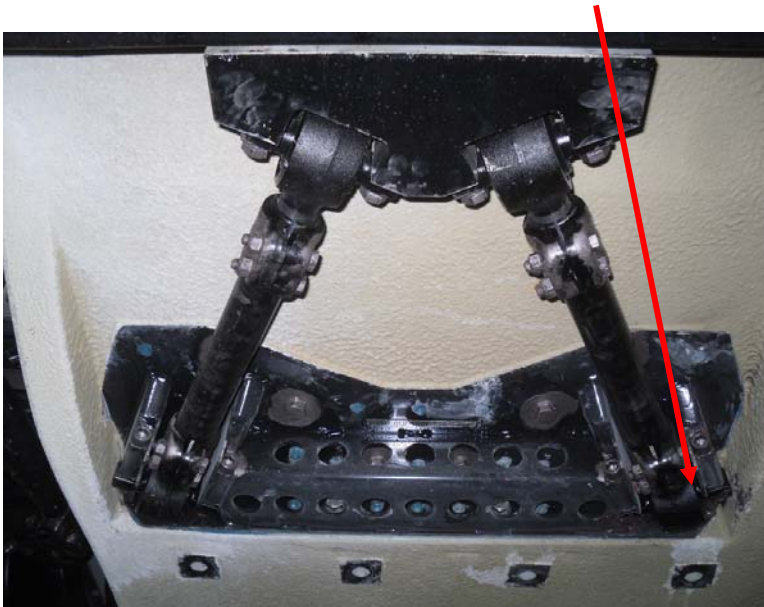
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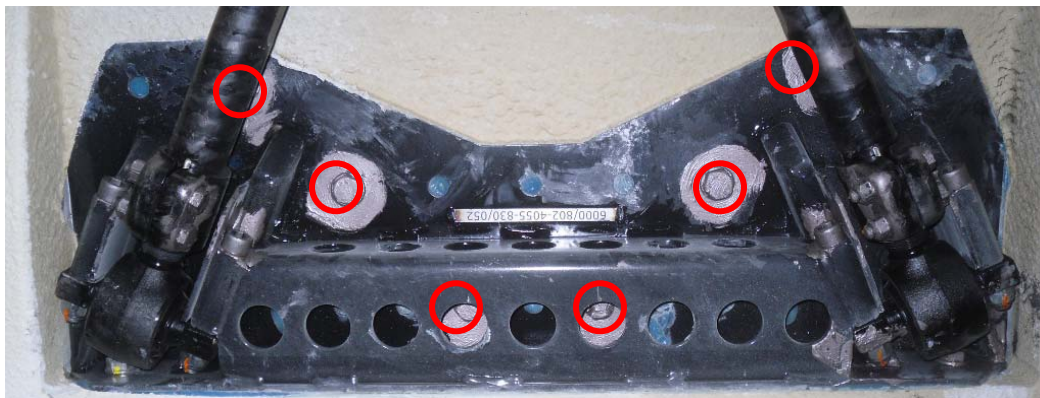
SAFETY PRECAUTIONS MUST BE FOLLOWED ACCORDING TO ACCEPTED INDUSTRY STANDARDS AND LOCAL/PROPERTY REQUIREMENTS.

Lower radius rods bracket mounting bolt inspection/rework:

1. Park the bus above a service pit and apply the parking brake or lift the bus and place stands underneath the official jacking pads.
2. Locate the front lower radius rod mounting bracket.



3. Check the torque of the bolts by using a 24 mm size socket. The torque has to be **150 lb-ft** for all bolts. Use a 24 mm size wrench to check the outer bolts (both the street side and curbside) and see if these two bolts are loose (see green circle above and top right picture on page 4th). If these two bolts are tight and torques of all other bolts are correct then no further actions are required.
4. If loose **vertically installed bolts** are found on the bracket (see marked 6 pieces bolts below) then re-torque bolts to **150 lb-ft** and apply torque seal onto the head of the bolts.



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5. If the **two forward (horizontally installed) bolts** are loose on the curb side then:

- Remove wheel chair ramp to access to the nuts of these bolts.



- Re-torque them to **150 lb-ft** and apply torque seal onto the nuts.
- Reinstall wheel chair ramp.

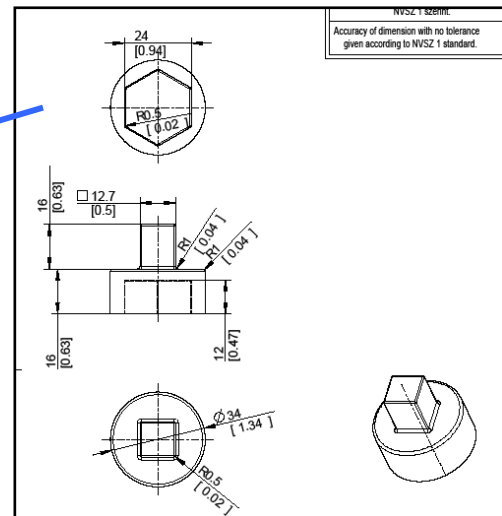
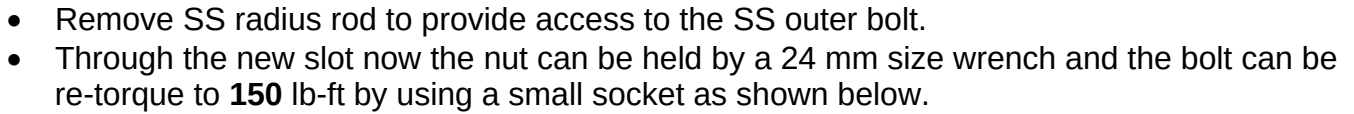
6. If the **two bolts are loose on the street side (SS)** then:

- Remove drain from the composite body.



- Remove small plate of drain attached to the composite body.
- Cut access slot as picture shows below by using hole saw, cutting wheel with a high speed air tool and/or by using a reciprocate saw. Position the slot symmetrical in front of the bolt (see picture and drawing below).

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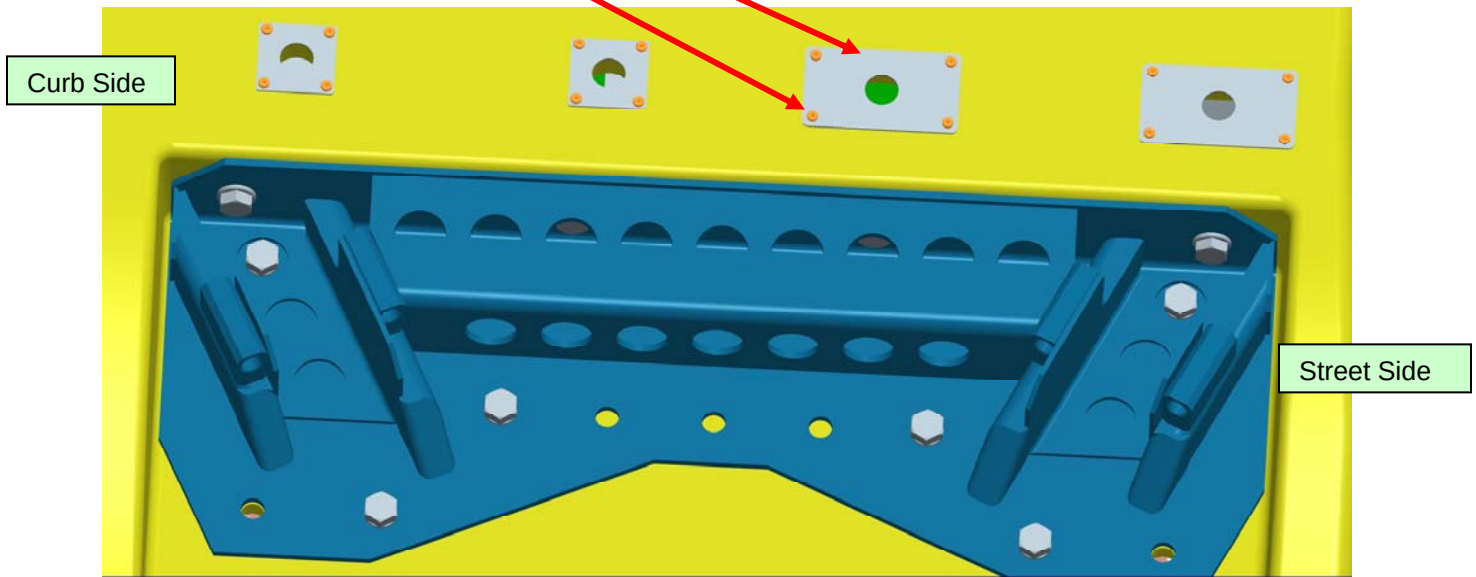
- **Seal the edges** of the slot all around by using Plexus MA-425.

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- Place the **P/N 804-4055-912** plate to the slot and secure it to the composite body with four #10 SS PH sheet metal screws.



- Install the original drain into the hole of plate.
- Repeat steps written in this paragraph on the 2nd street side bolt.
- Reinstall the SS radius rod: apply anti-seize onto the bolts and torque them to 173-177 lb-ft.

Upper radius rods brackets mounting stud/nut inspection

- Check the torque of the CS (6 nuts) and SS brackets nuts (4 nuts) by using a 24 mm size socket. Remove all zip ties on hoses and harnesses to access street side upper radius rod mounting bolts. The torque has to be **150 lb-ft**.



- Check for completeness of work.
- Record fleet #, mileages and date of completion.