



INSTRUCTION TO SERVICE

ITS: 60411		06/03/2022
SECTION:	526 Seating and Stanchions	
WRITTEN BY:	Kalman Takacs	
SUBJECT:	Install Pedestals to Six Cantilever Seats	
ISSUE:	Securement of the cantilever seats may weaken after 10 years in service	
SUMMARY:	Install pedestals to six cantilever seats per this ITS.	

ITS60411

Ref. NHTSA Recall No.	Ref. Transport Canada Recall No.
Not Applicable	Not Applicable

THIS ITS DOCUMENT SHOULD BE RETAINED AND REFERRED TO FOR FUTURE MAINTENANCE UNTIL THE NEW FLYER PARTS AND/OR SERVICE MANUAL IS UPDATED TO REFLECT WORK DONE AS A RESULT OF THIS DOCUMENT. ENSURE THAT THIS DOCUMENT IS AVAILABLE FOR PARTS AND MAINTENANCE STAFF GOING FORWARD.

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

PROCEDURE:

1. Park the bus over a service pit or where it can be raised up. Apply parking brake.
2. Turn the main battery disconnect switch to the "OFF" position. Place wheel chocks underneath the front wheels.
3. Inside the bus, locate the six cantilever seats. The below procedure details how to add pedestals underneath these six seats. Refer to Figure 1.

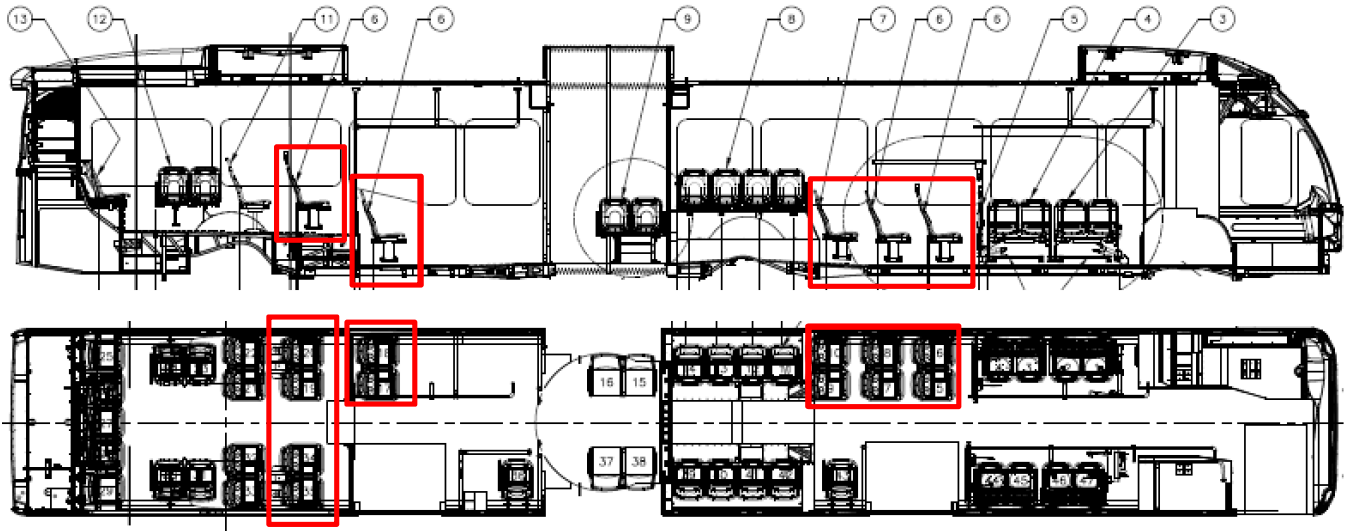


Figure 1: Six cantilever seats that are subject for this repair

Note: the following steps need to be done underneath the bus. If bus lift is used, ensure to follow the recommended safety instructions detailed in the New Flyer Maintenance manual and the instructions noted on the lift. Only trained personnel can operate bus lift. Place jack stands underneath the official jacking pads.

4. Underneath the bus, install six backing plates (PN **964411**) to the locations shown on the drawings below according to the followings:
 - a. Clean mounting surface by using a wire brush and scraper.
 - b. Mark the hole locations as shown on the drawings below and drill .397" diameter (drill size X) holes. **Note that there are two different distances between holes (6.87" or 8") depending on locations (depending on seat pedestals). Each backing plate has 3 holes to accommodate both type of hole patterns.** Use a backing plate as a template when drilling holes. Refer to Figures 2 and 3.
 - c. Remove burr around holes.
 - d. Degrease mating surfaces of the floor and plates with a lint free cloth lightly soaked with denatured alcohol.
 - e. Apply a bead of Sika 221 adhesive (PN **055701**) around the inside perimeter of the backing plates and bond them to the bottom side of flooring as show on the drawings below. Refer to Figures 2 and 3.

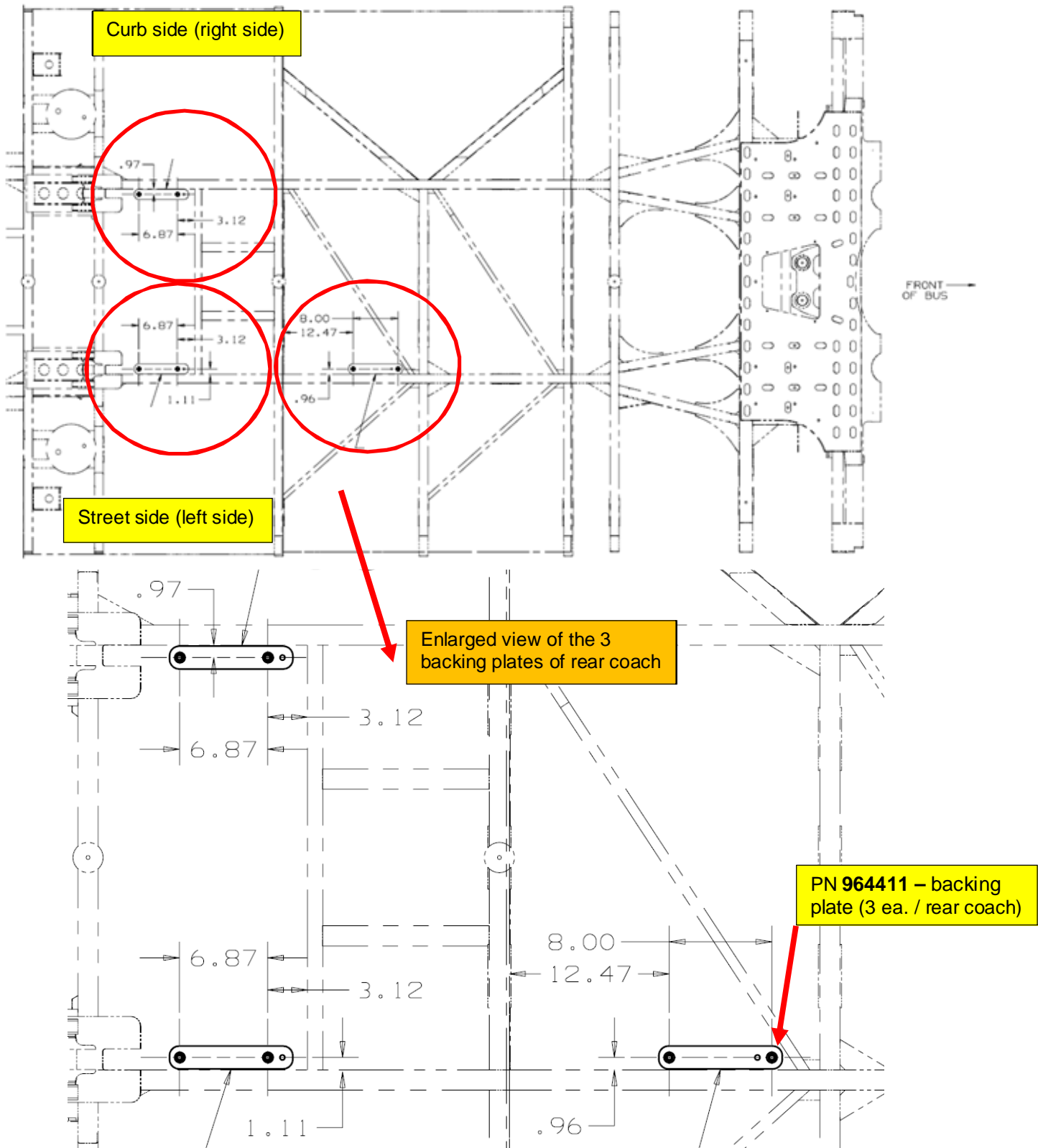


Figure 2: Locations of the 3 backing plates at the rear coach

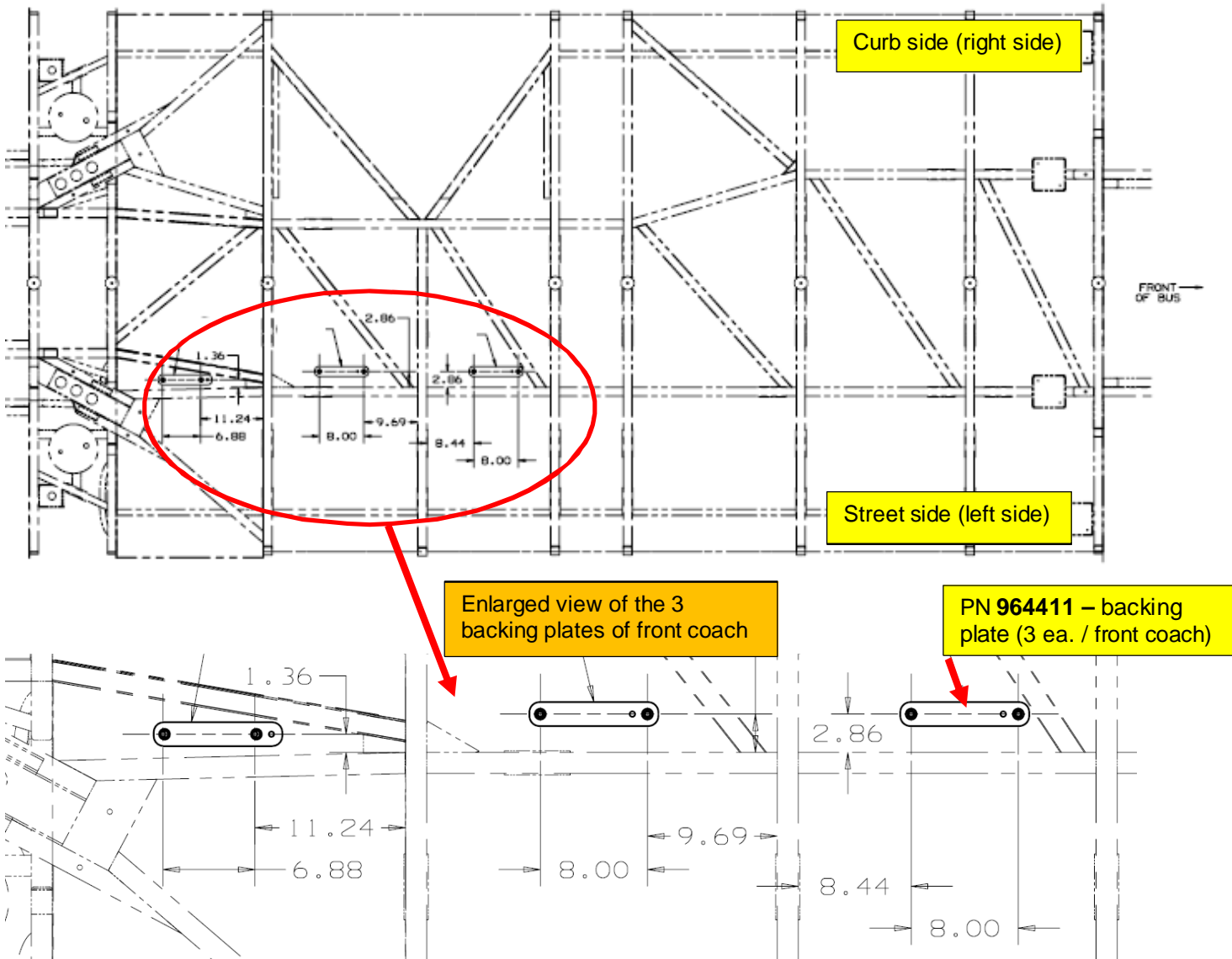


Figure 3: Locations of the 3 backing plates at the front coach

5. Inside the bus inspect the securement of the six cantilever seats. Ensure there is no gap between the upper seat track and the side wall. Remove rubber insert and ensure all mounting rivets of the upper seat track are present and tight. If seat track is loose or rivets are missing, then repair seat track securement per **ITS-59048**. Refer to Figure 4.

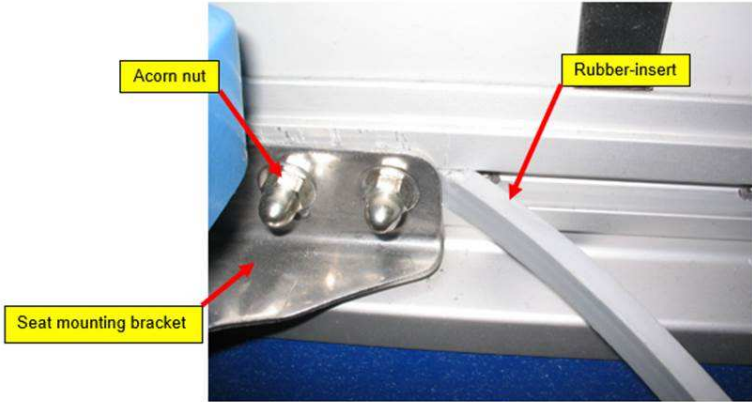
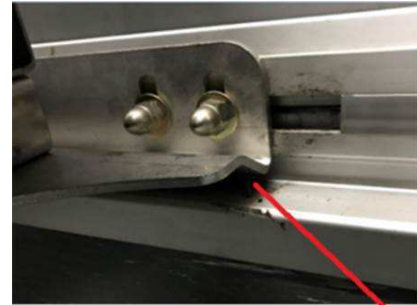


Figure 2: Rubber-insert removal



1/4" gap

Figure 4: Upper seat track and bracket inspection

6. Carefully loosen acorn nuts at the upper and lower seat brackets just enough to be able to move the seats back and forward or up and down as required. The bottom of the upper seat bracket must be $\frac{1}{4}$ " from the ledge surface of the upper seat track. Refer to Figure 4.
7. Place the matching pedestal underneath the seat and secure it to the bottom of the seat frame with 4 ea. 3/8-1.25 L bolts (PN **20B06020**), 8 ea. flat washers (PN **50W06000**) and 4 ea. nuts (PN **42N06000**). Leave bolts loose so the pedestal can be adjusted if required. Refer to Figures 5,6 and 7.

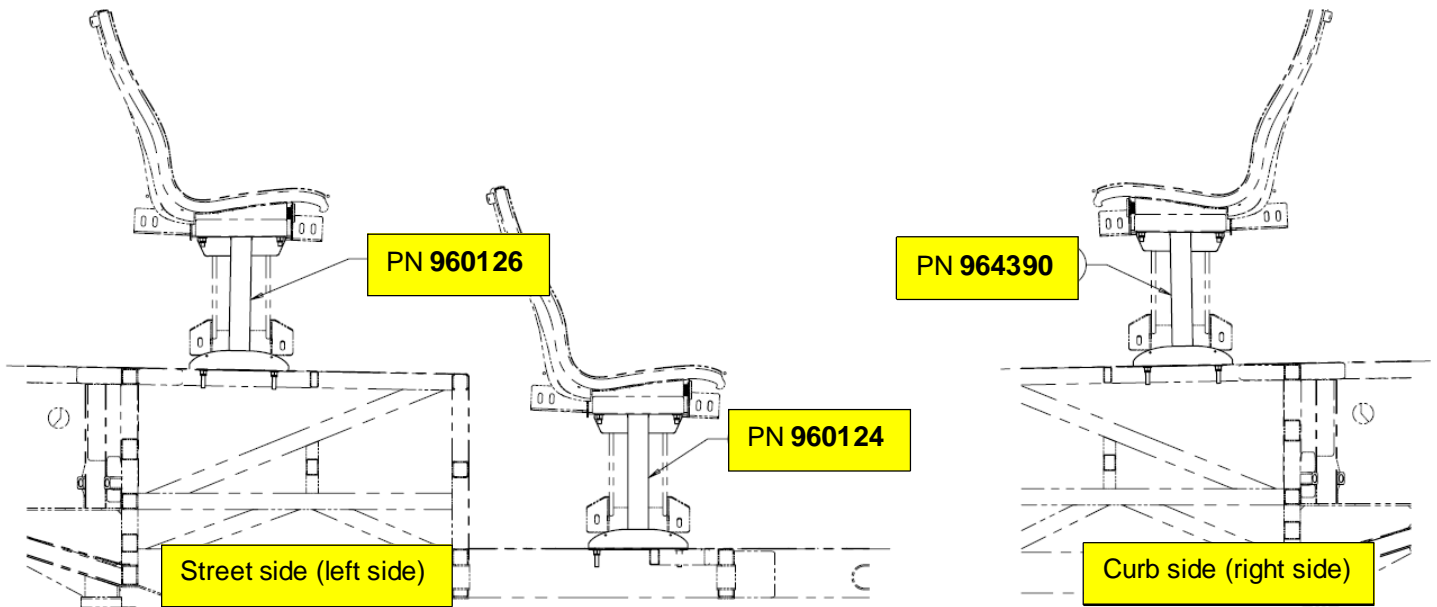


Figure 5: Pedestals for the 3 seats of rear coach

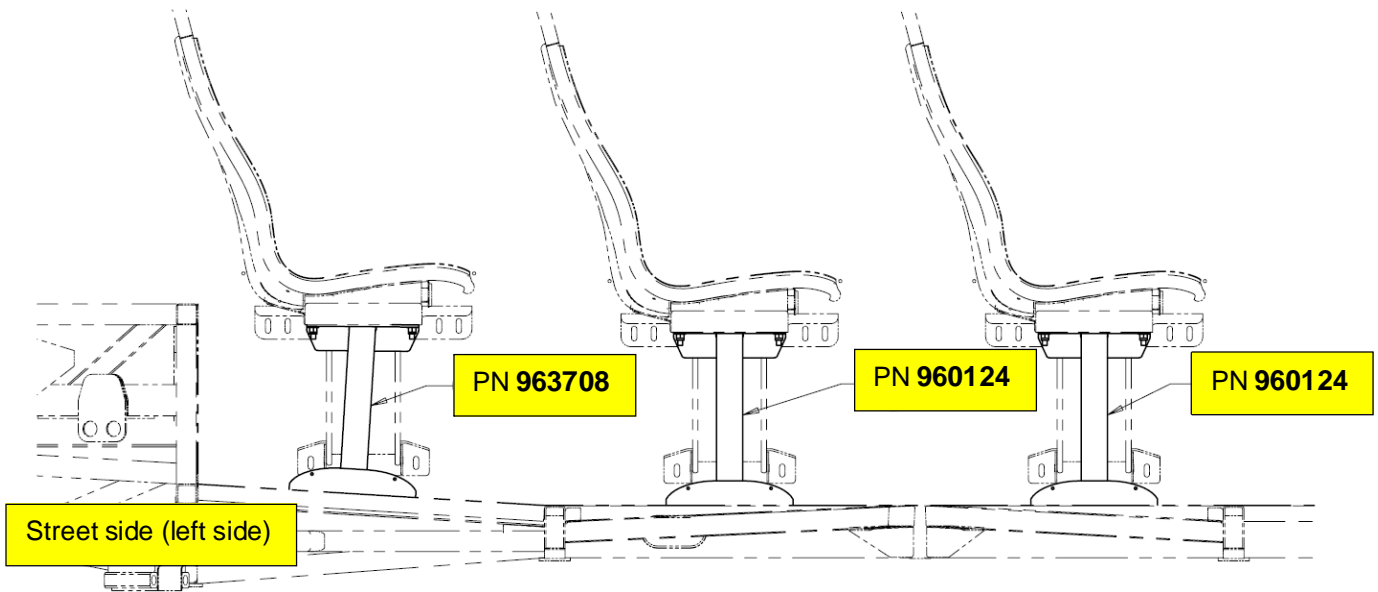


Figure 6: Pedestals for the 3 seats of front coach

8. If required, move seat and/or pedestal until the holes at the bottom of the pedestal align with the recently drilled holes on the floor.
9. Place 1 ea. flat washer (PN **50W06000**) onto each 3/8-2.0L 2 ea. bolts (PN **20B06032**) and push them through the pedestal and the floor. Place flat washer and nut (PN **42N06000**) on each bolt underneath floor. Refer to Figure 7.

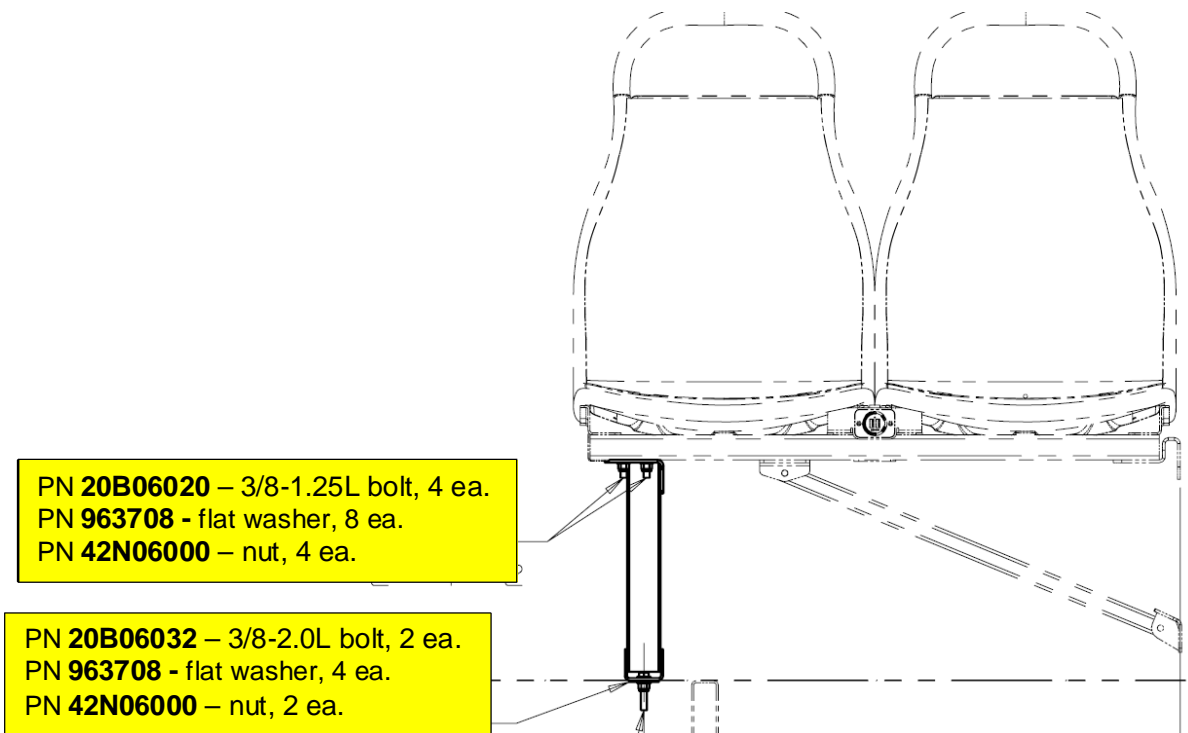


Figure 7: Upper and lower mounting hardware of the pedestals

10. Ensure the T-bolts are fully engaged in the upper and lower seat tracks. Refer to Figure 8.

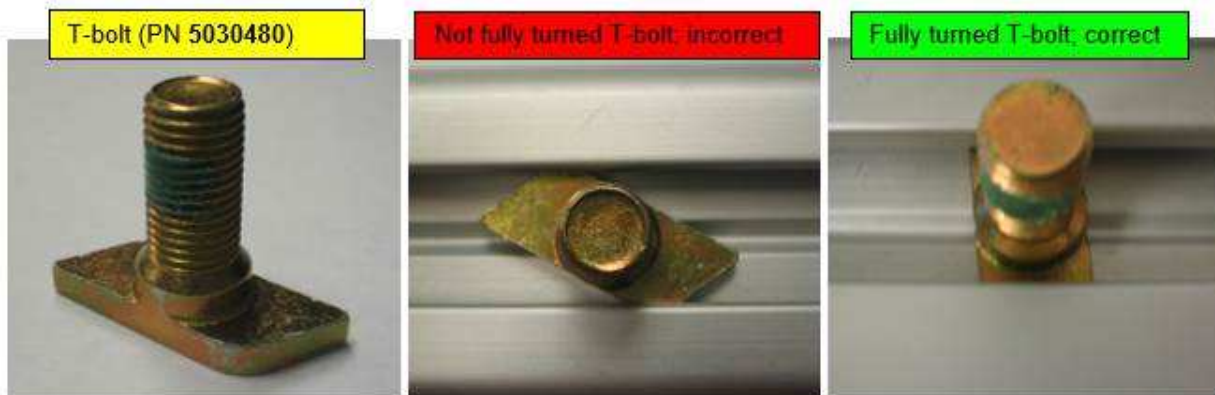


Figure 8: T-bolt engagement

11. Apply two small drops of medium strength Loctite 243 thread locker (PN **081034**) onto the first two threads of each acorn nut that were loosen. If new T-bolts are used (with supplier installed thread locker adhesive is applied on the threads already) then additional Loctite is not required on the threads of the acorn nut. Torque the acorn nuts to 25 ±5 ft-lbs. Apply torque seal onto acorn nuts.
12. Ensure all bolts of the pedestal (seat-side and floor-side) are aligned correctly then torque them to 35 ft-lbs.
13. Perform the work detailed between Step 6 and 12 on the rest of the five cantilever seats.
14. Reinstall rubber insert into the upper seat track. Refer to Figure 4.
15. Apply Sikaflex 221 Sealer (PN **055701**) over the nuts underneath the floor to prevent water intrusion.
16. Apply undercoating (PN **606947**) onto the backing plates and surrounding area where undercoating was removed previously.
17. When rework is completed, remove all tools and debris and return the bus to service condition.
18. Turn the main battery disconnect switch to the “ON” position.

LABOUR ESTIMATE				
	Operation	People	Hours	Labor Time
1	Install pedestals to six cantilever seats per this ITS	1	6.00	6.00

PARTS REQUIRED					
Item	Part Number	Description	Qty. per Coach	Units	Notes
1	20B06032	BOLT-HEX SST 3/8UNC 2.00	12	EA.	
2	20B06020	BOLT HEX SS 3/8" -16 UNC X 1 1/4" LG	24	EA.	
3	42N06000	NUT-3/8-16 UNC NYLON LOCK SST	36	EA.	
4	50W06000	WASHER FLAT SS 3/8"	72	EA.	
5	960124	PEDESTAL-CANTILEVER LH	3	EA.	
6	960126	PEDESTAL-CANTILEVER LH 1.5 DEG	1	EA.	
7	963708	PEDESTAL-CANTILEVER LH 3 DEG	1	EA.	
8	964390	PEDESTAL-CANTILEVER RH 1.5 DEG	1	EA.	
9	964411	PLATE-SEAT PEDESTAL MOUNTING	6	EA.	
10	055701	ADHESIVE-SIKA 221 WHITE	1	EA.	
11	081034	LOCTITE-243 MEDIUM 10ML	0.1	EA.	
12	606947	COATING-UNDERBODY CHIP RESISTANT	0.1	GA	
13	NPN	Denatured alcohol	0.1	QT	Purchased locally

SPECIAL TOOLS REQUIRED					
Item	Part Number	Description	Qty. per Coach	Units	Notes
1	NPN	Torque wrench capable of 35 LB-FTS			