



# INSTRUCTION TO SERVICE

ITS61508		12/04/2025
<b>SECTION:</b>	549-HVAC System	
<b>SUBJECT:</b>	Oil collection bottle installation for HVAC compressor	
<b>ISSUE:</b>	To collect and measure oil sweep through the shaft seal of the HVAC compressor	
<b>SUMMARY:</b>	Install oil collection bottle per this ITS	

# ITS61508

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 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.**

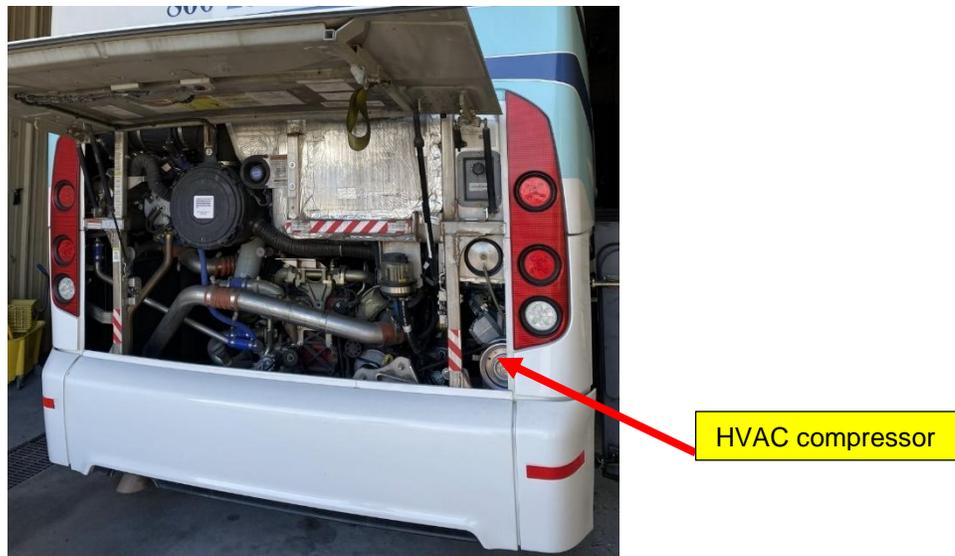
**PROCEDURE:**

1. Set parking brake and place wheel chocks underneath the front wheels.
2. Turn the main battery disconnect switch to the “OFF” position. Turn the rear run selector switch to the “OFF” position. Refer to Figure 1.



**Figure 1: Rear run selector switch**

3. Open curb side and rear engine compartment access doors and locate the HVAC compressor.



**Figure 2: Location of the HVAC compressor**

4. Relocate existing bracket of the oil collection tube from the streetside of the HVAC compressor to the curbside of the compressor. Reorient oil collection tube as shown below.

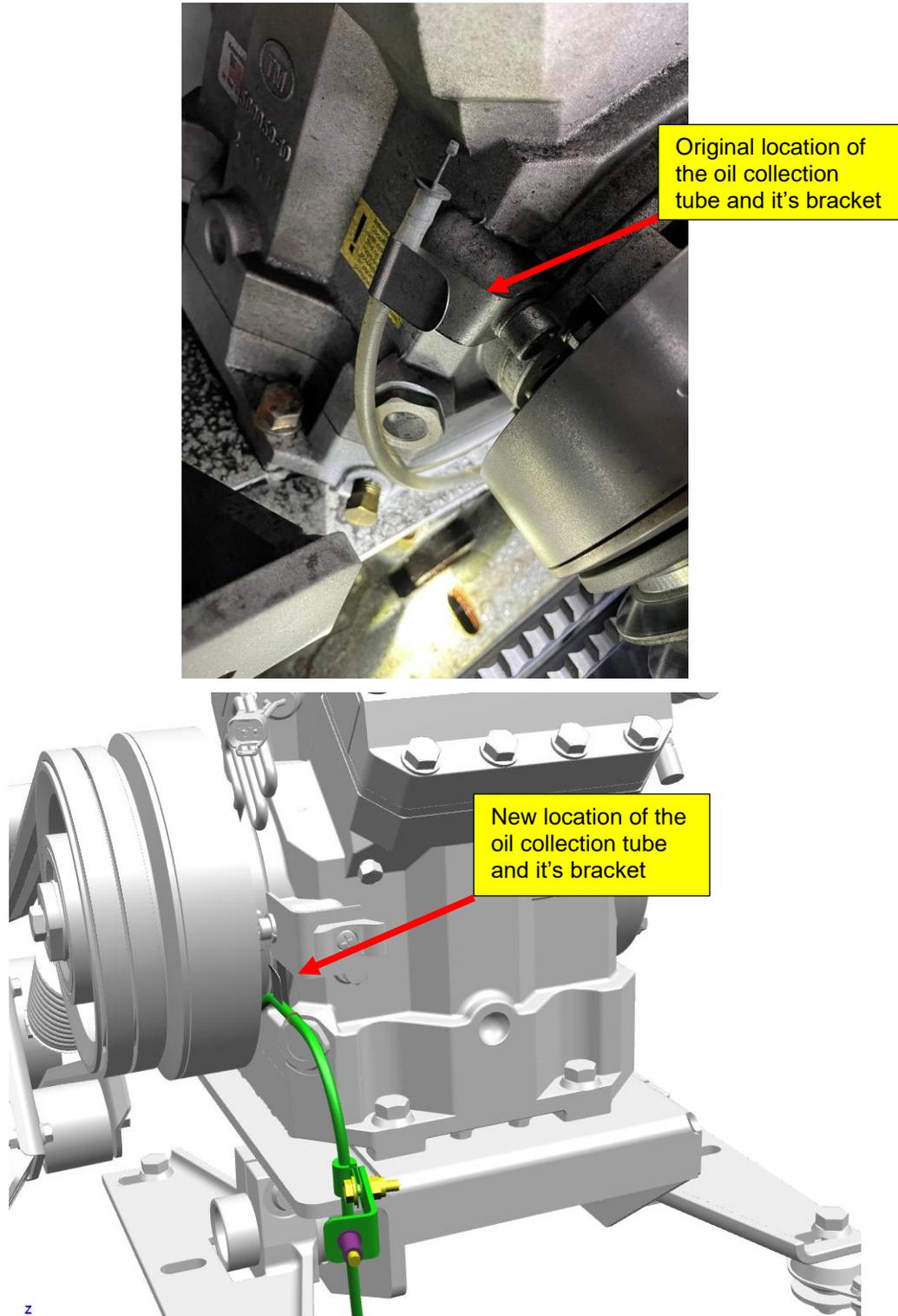
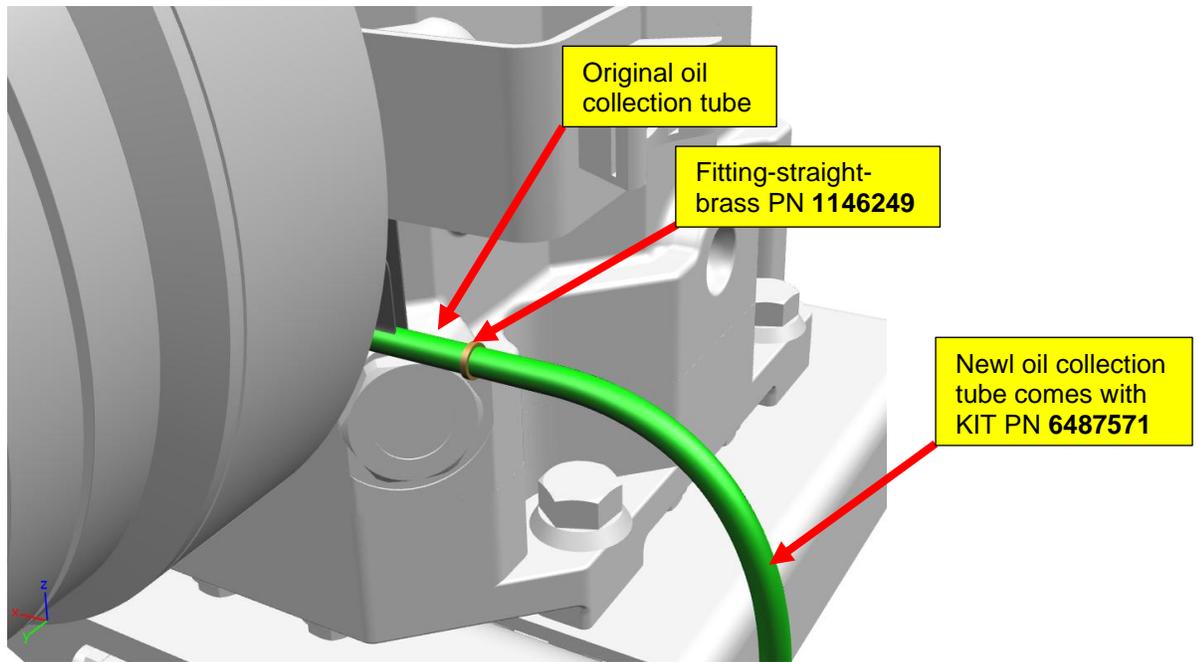


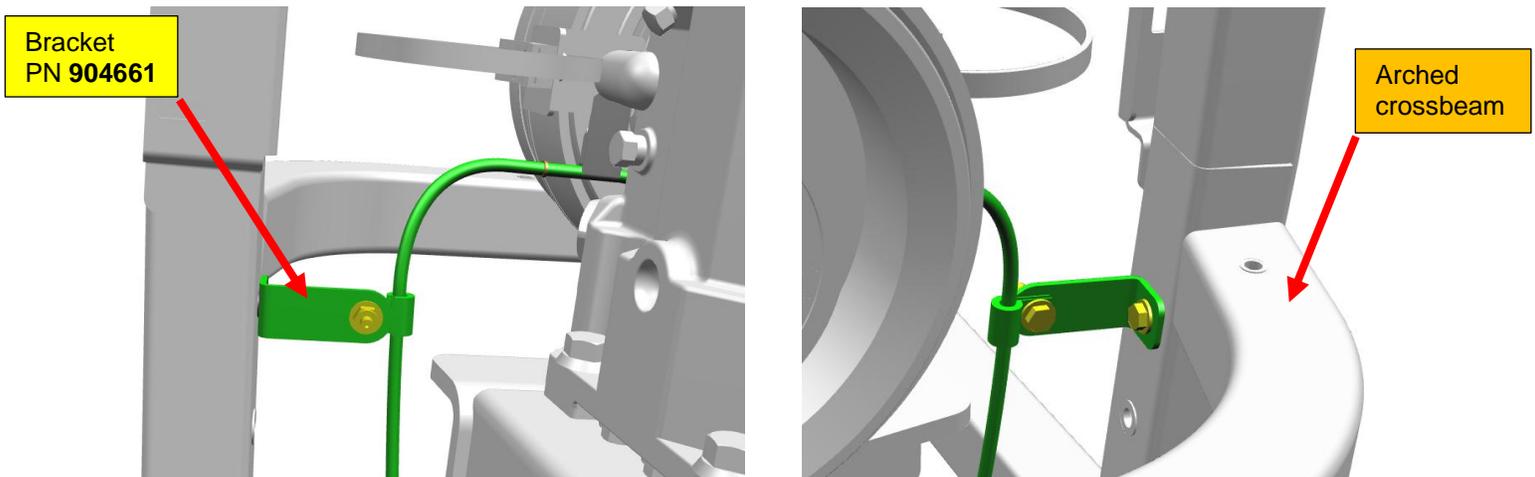
Figure 3: original and new location of the oil collection tube bracket

5. Join existing oil collection tube to new tube contained in collection bottle kit by using a straight brass fitting (PN 1146249). Refer to Figure 4.



**Figure 4: Connect new tube with original tube**

6. Using bracket (PN 904661) as a template, mark and drill 0.391" diameter hole (25/64 drill bit) in structure at the location shown on Figure 5 below.



**Figure 5: Align bracket with the bottom of the arched crossbeam**

7. Install threaded insert (PN 522558) by using a manual or pneumatic rivnut gun.
8. Secure bracket to the structure with  $\frac{1}{4}$ -20x1.00" SST bolt (PN 20B04016), flat washer (PN 50W04000). Refer to Figure 6.

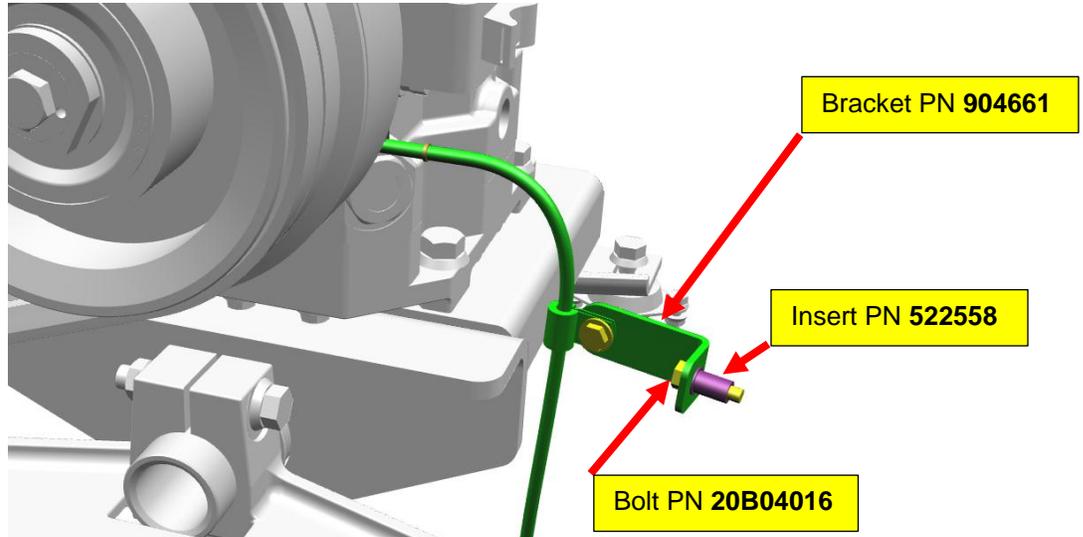


Figure 6: Install bracket for the tube

9. Secure new tube to the bracket with a P-clamp (PN 247217),  $\frac{1}{4}$ -20x1.00" SST bolt (PN 20B04016), 2 ea. flat washer (PN 50W04000) and nut (PN 42N04000). Refer to Figure 7.

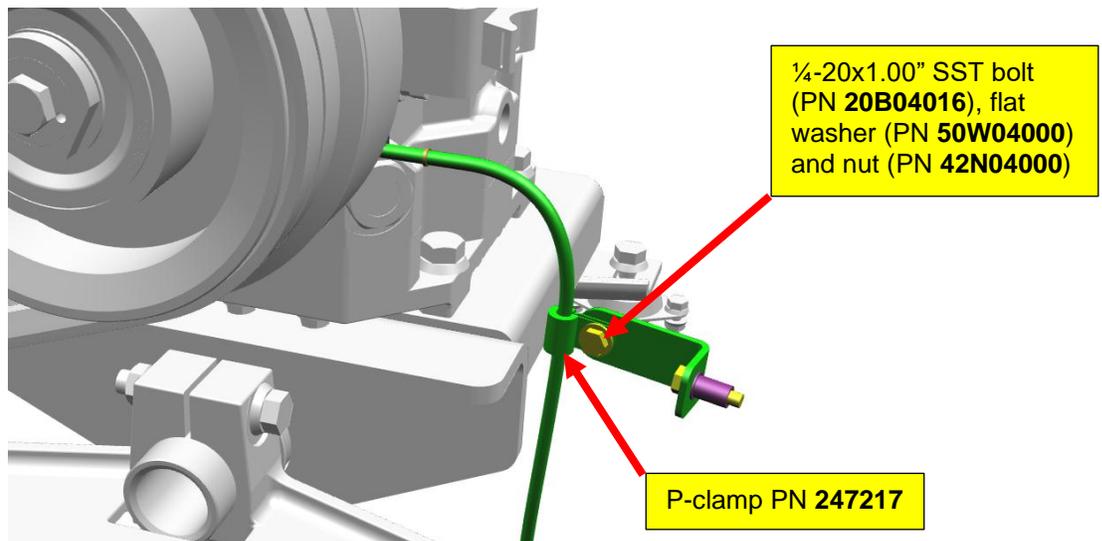
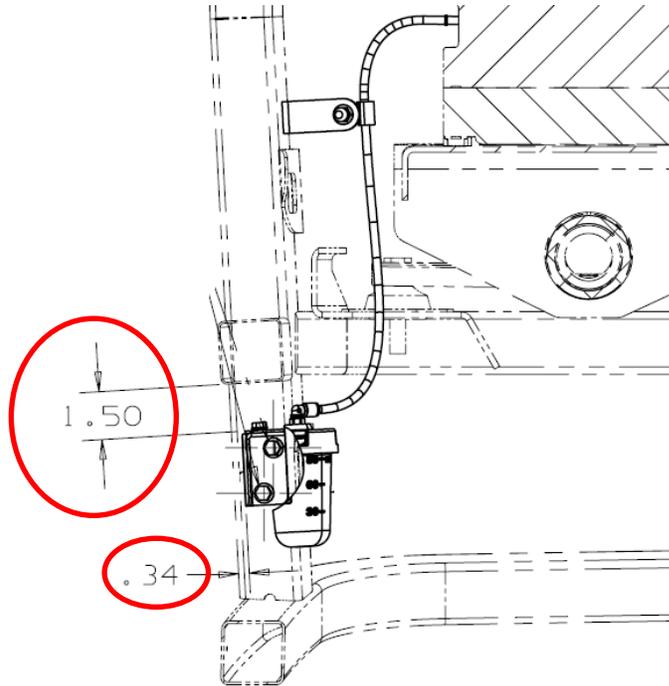


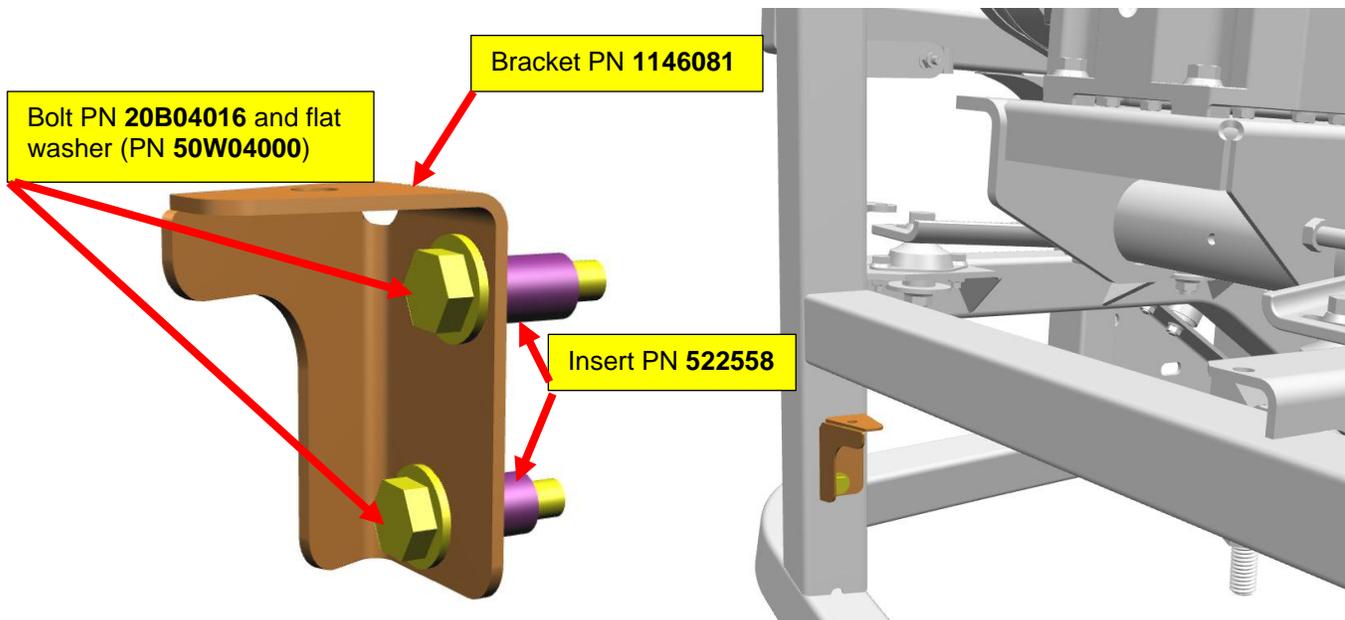
Figure 7: Secure new tube to the bracket

10. Using the oil collection bottle bracket (PN 1146081) as a template, mark and drill 0.391" diameter holes (25/64 drill bit) in structure at two locations as shown below.



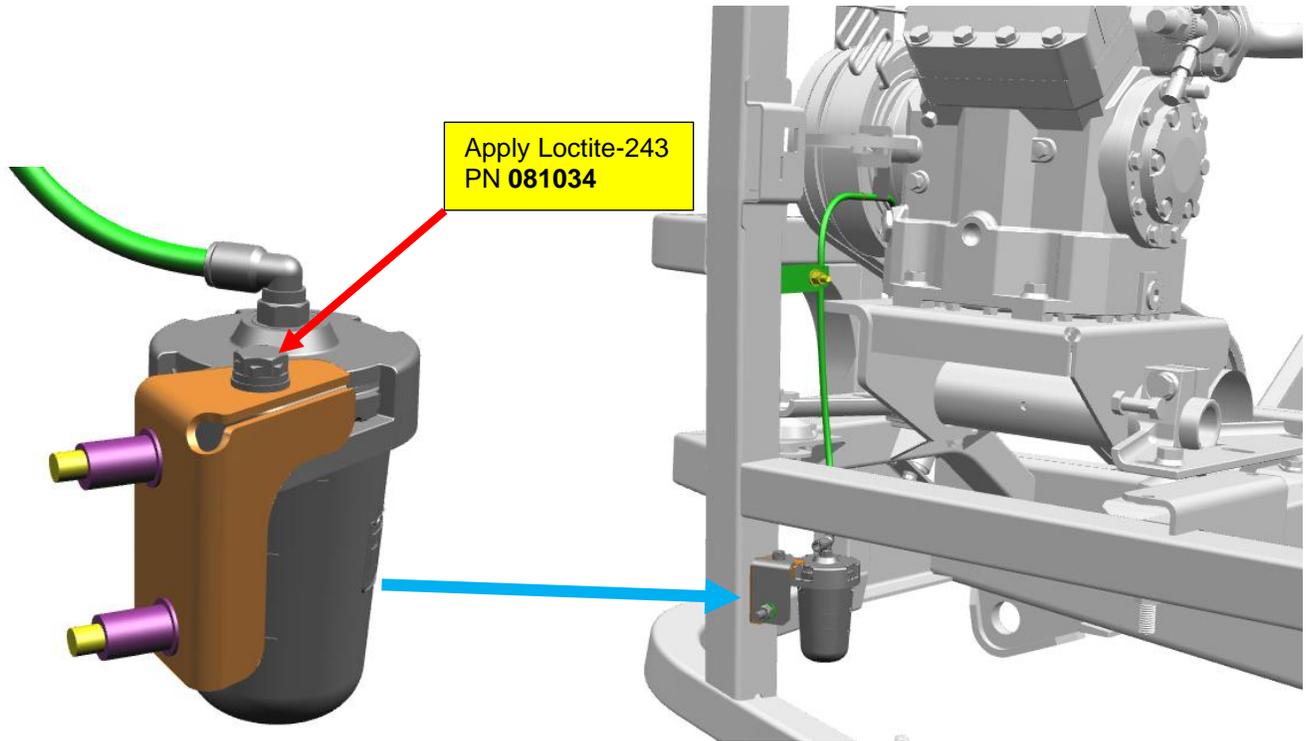
**Figure 8: Location of the bracket for oil collection bottle**

11. Install two threaded inserts (PN 522558) by using a manual or pneumatic rivnut gun.
12. Secure bracket to the structure with 2 ea. 1/4-20x1.00" SST bolt (PN 20B04016) and 2 ea. flat washer (PN 50W04000). Refer to Figure 9.



**Figure 9: Install bracket**

13. Secure oil collection bottle to the bracket. Apply Loctite-243 thread locker (PN **081034**) to the first two threads of the bolt supplied with the oil collection bottle kit. Discard lock washer and brackets came with the kit. Refer to Figure 10.



**Figure 10: Install bracket and bottle**

14. Connect new hose to the oil collection bottle.
15. Check for completeness of the work.
16. Remove all tools and debris from work area to return coach to service.
17. Turn the main battery disconnect switch to the "ON" position.

**LABOUR ESTIMATE**

	Operation	Number of Technician(s)	Hours	Labor Time T X HR
1	Install oil collection bottle per this ITS	1	2	2

**PARTS REQUIRED**

Item	Part Number	Description	Qty. per Coach	Units	Notes
1	20b04016	BOLT HX SS 1/4X1.00	4	each	
2	42N04000	NUT-NYLON LOCK 1/4-20 UNC SST	1	each	
3	50w04000	WASHER-FLAT 1/4 NOM	5	each	
4	081034	LOCTITE-243 MEDIUM 10ML	0.01	EA	
5	247217	CLAMP-P 0.250	1	each	
6	522558	INSERT-1/4-20 UNC SST	3	each	
7	904661	BRKT-BAE VENT LINE SPRT	1	each	
8	1146081	BRACKET-OIL COLLECTION BOTTLE	1	each	
9	1146249	FITTING-BRASS STRAIGHT UNION 3/16 BARB X 3/16 BARB	1	each	
10	6487571	KIT, Bottle, Oil Collection	1	each	

**SPECIAL TOOLS REQUIRED**

Item	Part Number	Description	Qty.	Units	Notes
1	NA	Rivnut gun	1		

