

Revision E (release 8): Addition of stop drill size. Addition of sealant operation around brackets.

REINFORCEMENT BRACKETS – SOLUTION FOR CRACKING ISSUE

Prevost vehicles

MODEL YEAR(S) AND VEHICLES INVOLVED

Model	VIN
NYCT X3-45 Commuter coaches Model Year : 2012	From 2PCG33495CC73 <u>5053</u> up to 2PCG33495CC73 <u>5232</u> incl.
The above list of VIN was valid at the time of publishing this document. Please refer to SAP for most recent information about outstanding vehicles	

MATERIAL

Order the following parts:

Part No.	Description	Qty
261432	BRACKET, REINFORCEMENT	1
261433	BRACKET, REINFORCEMENT	1
5001169 or 500526	SCREW, TAPPING HEX-WASHER HEAD SS #12x3/4" SCREW, TAPPING HEX-WASHER HEAD N500 #12x3/4"	11

Other parts that may be required:

Part No.	Description	Qty
506785	TAPE, DOUBLE FACE SELF-ADHESIVE, ROLL	A-R
684517	GLUE, SIMSON 70-03, TUBE	A-R

REQUIRED TOOLS

RIGHT ANGLE DRILL 	METRIC OPEN END WRENCH SET 	STUBBY LENGTH DRILL BIT Ø 11/64 
5/16-INCH MAGNETIC HEX HEAD DRIVER 	TORQUE WRENCH AND METRIC SOCKET SET 	CUTTER 
CAULKING GUN 	DRILL BIT Ø 1/8 – 5/32 	

PROCEDURE



DANGER

Park vehicle safely, apply parking brake, stop engine. In the battery box, set the battery cut-off switch to the OFF position prior to working on the vehicle.

Note: Because drilling must be performed within a limited space, use of a stubby length drill bit or a shortened regular drill bit is required.

- 1) To ease access, remove the clamps and flexible hose (see figure 1) at the top of the Charge Air Cooler core and rotate/move the upper 4in OD pipe that goes over the engine out of the way (spring loaded 4" OD hose clamp torque: **60 lbf-in**).



FIGURE 1

- 2) Inspect the bulkhead at the lower part of the SCR tank compartment (see figure 2). Using a drill stop and a **1/8"** or **5/32"** drill bit, drill a small hole through bulkhead only at the end of cracks in order to stop progression of stress cracking.

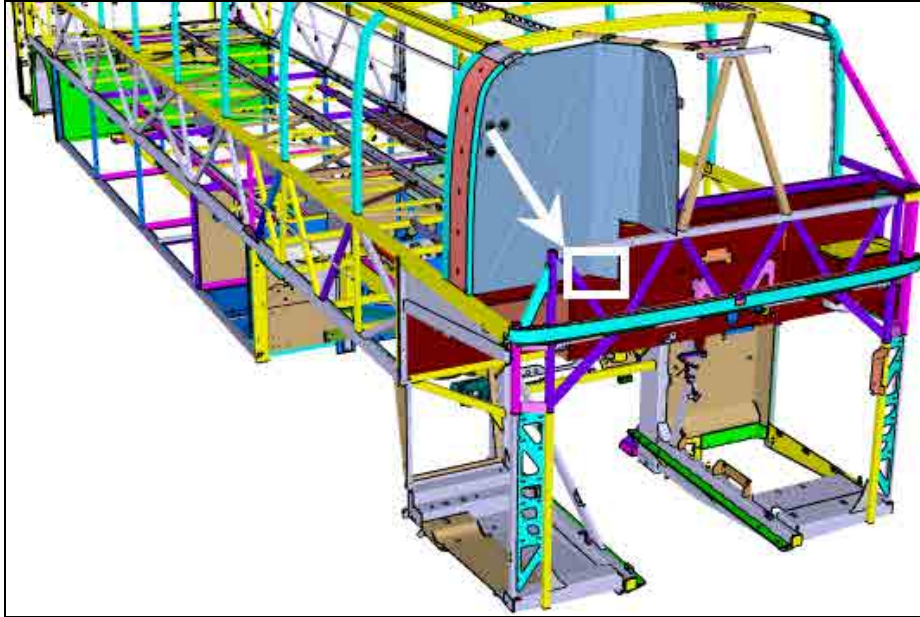


FIGURE 2

- 3) Using anti-silicone (or alcohol), properly clean the bulkhead where the reinforcement brackets will be fixed as they will be glued (see figure 5).
- 4) Using anti-silicone (or alcohol), properly clean the back of the reinforcement brackets (figure 3 & 4).
- 5) Apply one (1) strip of double face self-adhesive tape onto both reinforcement brackets (figure 3 & 4).

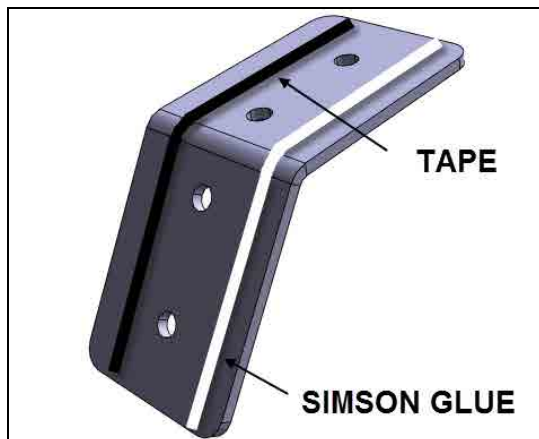


FIGURE 3: PART NO. 261433

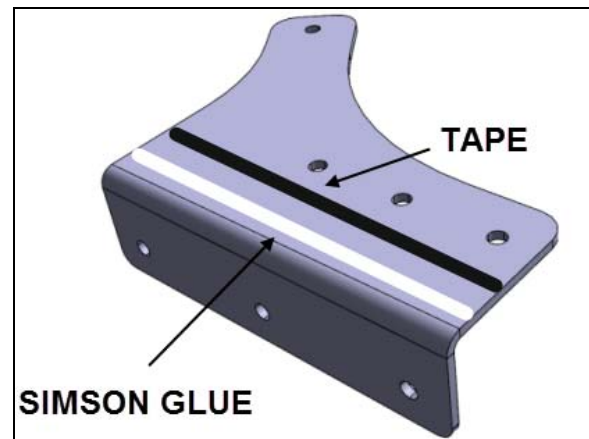


FIGURE 4: PART NO. 261432

- 6) Apply one (1) triangular shaped Δ ($5/16"$ ↔ x $3/8"$ ↑) bead of Simson glue on both reinforcement brackets. Cut the applicator tip in order to obtain the proper shape and dimensions (figure 3 & 4).
- 7) Peel tape protective paper away and affix reinforcement brackets in place. Press firmly.

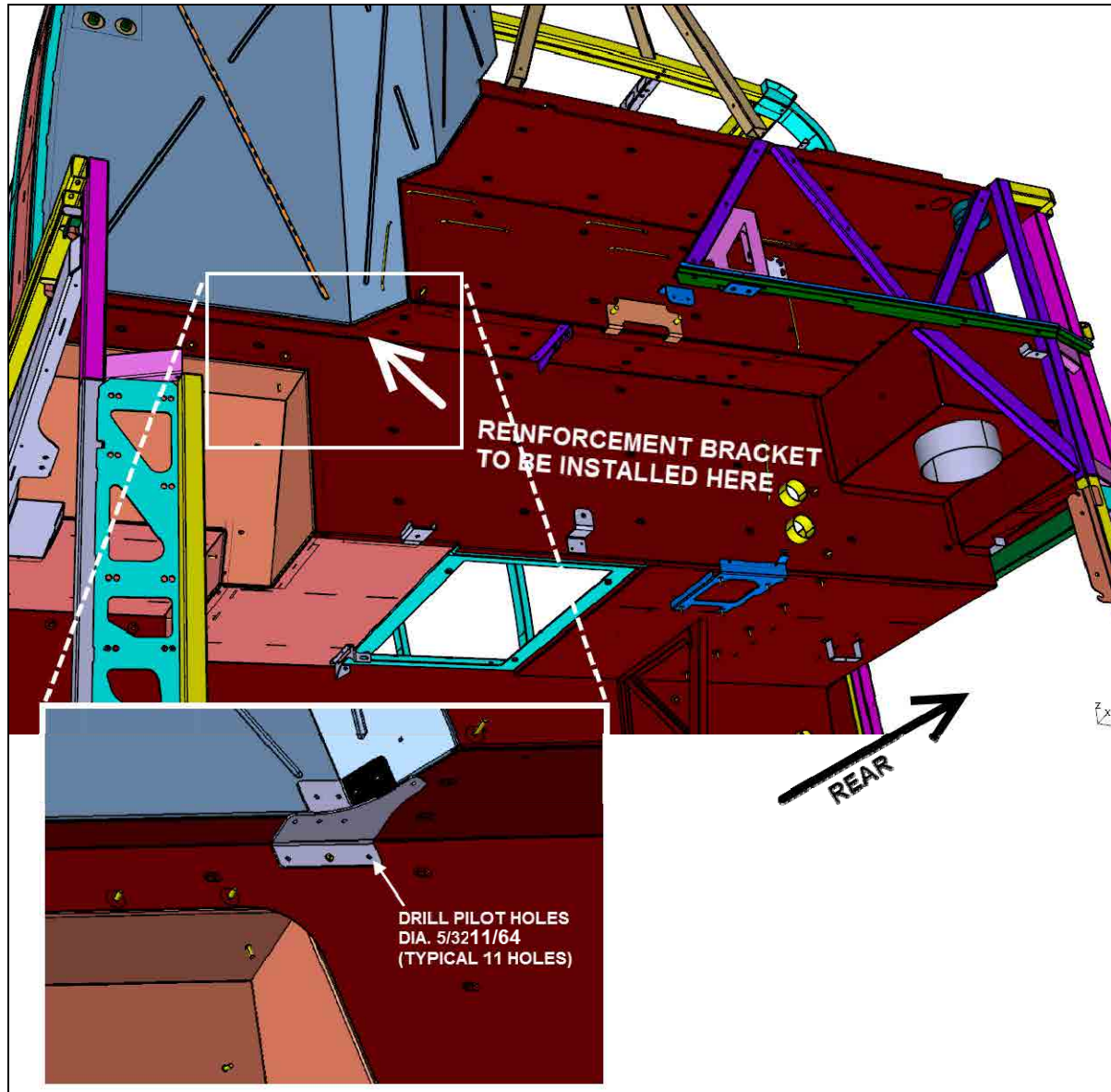


FIGURE 5

- 8) Using reinforcement brackets as reference for drillings position, drill pilot holes of **11/64"** diameter. Using self-tapping screw #5001169 (or 500526), secure reinforcement brackets onto bulkhead (see figure 5).

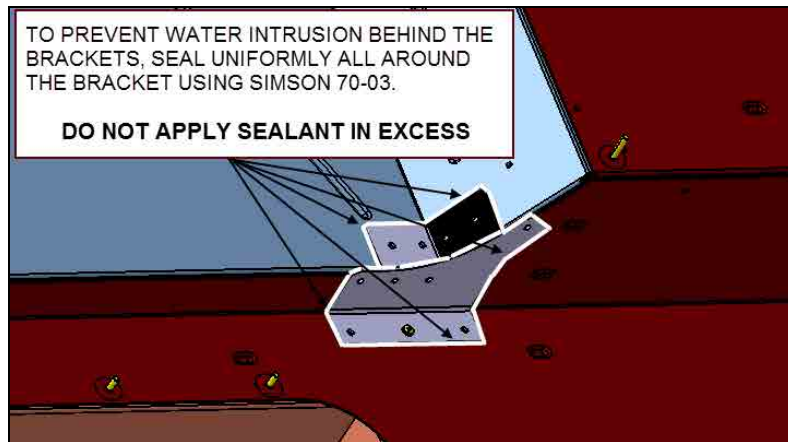


FIGURE 6

- 9) To prevent water intrusion, seal uniformly all around the reinforcement brackets using Simson 70-03. Do not apply sealant in excess (figure 6).
- 10) Finally, connect the upper 4-inch OD pipe to the Charge Air Cooler (see figure 1) using previously removed flexible hose. Reinstall the spring loaded hose clamps and torque screw to 60 lbf-in.

PARTS / WASTE DISPOSAL

Discard waste according to applicable environmental regulations (Municipal/State[Prov.]/ Federal)

ESTIMATED TIME

The time required to perform this special bulletin is approximately 45 minutes (0.75hr).

OTHER

VBC Bulletin	na
Fail Code	18.08
Defect Code	09
System Condition	B
Causal Part	261320

Prevost engages in a continuous program of testing and evaluating to provide the best possible product. Prevost, however, is not committed to, or liable for updating existing products.