



INSTRUCTION TO SERVICE

ITS: 5238	
SECTION:	420 Body A/P Exterior
WRITTEN BY:	Jermie Marasigan
SUBJECT:	Remove and replace Vision Roof Hatch Glass

ITS5238

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PROCEDURE:

1. Turn the main battery disconnect switch to the “OFF” position.
2. Locate the roof hatches on the front and rear of the coach as shown in Figure 1 and Figure 2 respectively.
3. Remove the existing roof hatch glass and replace with new glass NF P/N: 6409870. Follow Spheros removal and installation instruction as per Appendix A.

NOTE: Roof hatch removal and installation procedure is typical for front and rear roof hatch.

WARNING: Use fall protection equipment when working on the roof.

4. Turn the main battery disconnect switch to the “ON” position.

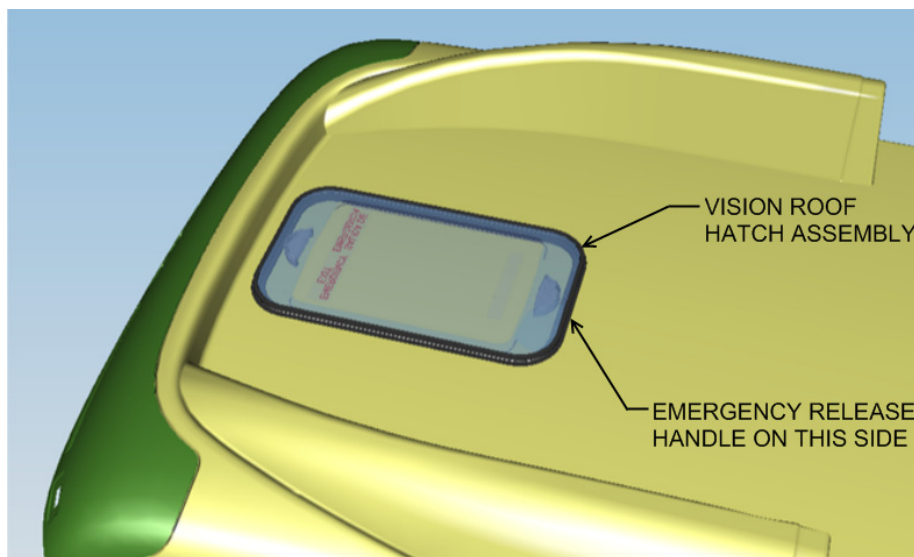


Figure 1: FRONT ROOF HATCH LOCATION REFERENCE

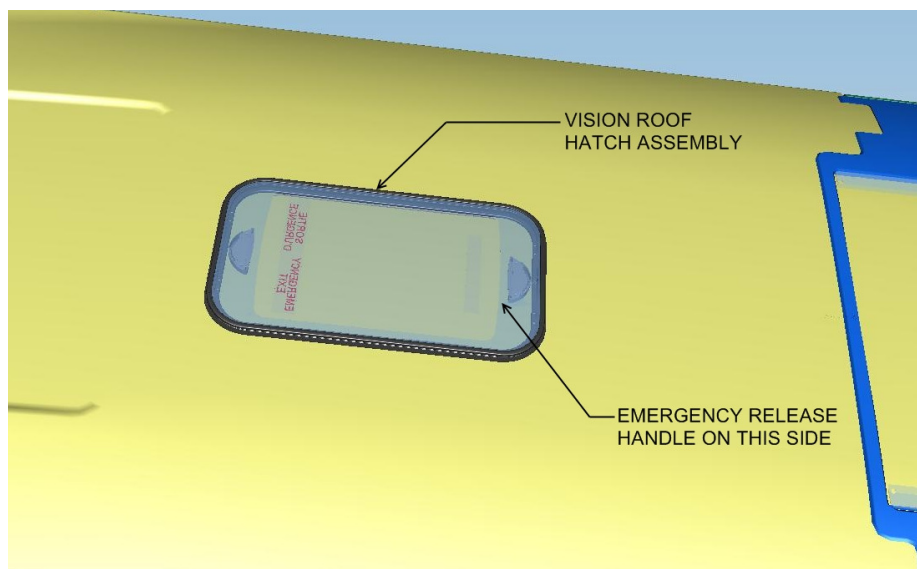


Figure 2: REAR ROOF HATCH LOCATION REFERENCE





APPENDIX A

VISION HATCH REMOVAL AND REPLACEMENT INSTRUCTION

1. Procedure

	<ul style="list-style-type: none"> • Prepare replacement hatch. Attach emergency exit label (if required, refer to Instruction WI-0004) • Use a study step stool to access the vision hatch. • Open vision hatch by pushing the handles upward one at a time. • Remove plastic trim gradually by pulling one side with the Velcro strip • Place trim on a safe place.
	<ul style="list-style-type: none"> • Remove both hinges opposite the quick release hinges using an 8mm socket wrench. (Loosen lock nut one at a time on both hinges. Uneven removal of nuts on the hinge will unbalance the glass.) • Hold the glass up and pull down the hinge mechanism holding the spacer. Do one hinge at a time.
	<ul style="list-style-type: none"> • Lay glass to the frame. (Take note that the hinges on opposite side of the hatch will close back.)
	<ul style="list-style-type: none"> • Push back hatch handle on the other end. • Remove both safety pins • Lift by holding glass on the narrow side of the hatch. • Tilt hatch by 45° and bring down hatch end side first
	<ul style="list-style-type: none"> • Remove hinge mechanisms from the old hatch and install to the new hatch. Ensure hinges are installed at the glass label side of the hatch. • Tighten each nut up to 3.0 Nm using a screw driver torque wrench.

	<p>VISION HATCH REMOVAL AND REPLACEMENT INSTRUCTION</p>	<p>Document Number WI-Q002 Date of Publication 10/29/2012 Pages Page 2 of 2 Index 2</p>
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	<ul style="list-style-type: none"> Put back glass on the vision hatch trim and re-align bolts with the hinge mechanisms.
	<ul style="list-style-type: none"> Replace plastic spacer and hinge mechanism. Ensure mechanism does not have a resisting force when installed. Presence of resisting force will prevent mechanism to lay flat on the spacer and will cause premature sealing when hatch is closed.
	<ul style="list-style-type: none"> Replace lock nuts using a socket wrench one at a time. Check spacer should lay flat on the metal adapter and hinge to the spacer. Gradually tighten each nut up to 3.0 Nm using a screw driver torque wrench.
	<ul style="list-style-type: none"> Re-position linkage of quick release mechanism on the other end of the hatch Replace safety pins to the linkage. Ensure pins are pushed completely. Re-adjust safety cable. Re-tighten all eight (8) nuts by re-tightening it up to 3.0 Nm. This serve as a quality check.
	<ul style="list-style-type: none"> Close hatch and replace plastic trim. Ensure that the notch on the trim is positioned on the emergency handle side. <p>Note: Removal and replacement will take 10-12 minutes.</p>



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LABOUR ESTIMATE

	Operation	Men	Hours	Labour Time M X HR
1	Remove and replace Vision Roof Hatch Glass	1	0.5	0.5

PARTS REQUIRED

Item	Part Number	Description	Qty. per Coach	Units	Notes
1	6409870	VISION HATCH GLASS W/O MECHANISM	2	EA	Vendor P/N: 8601136A