PREVOST

MAINTENANCE INFORMATION

Mi97-24

CERTIFIÉ-CERTIFIED ISO 9001 PREVOST

DATE: April 1998 **SECTION:18**

SUBJECT: WATER INFILTRATION IN H SERIES VEHICLES

APPLICATION:

Model	VIN
H3-41, H3-45 and VIP-45 Vehicles Model Year: 1995 - 1998	From 2P9V33494S1011057 up to 2PCH33414W1012177 incl.

DESCRIPTION

On the above-mentioned vehicles, some vehicle body sealing joints may be defective, leaks may also be present at windshield or rear cap lateral window level. In all cases, if water infiltration is present or if you notice cracked sealing joints, it is recommended to replace them using **closely** the following procedure. A video cassettte (Prévost #683604) is also available to facilitate the operation.

MATERIAL

Part No.	Description	Qty
683097	Cleaner, Sika 205 (1 liter)	A/R
680532	Sealant, Sika 221 Grey (cartridge)	A/R
682176	Sealant, Sika 221 Black (cartridge)	A/R
681092	Sealant, Sika 255 (cartridge)	A/R
790370	Filler tool	1
300270	Filler (roll of 15')	A/R
309023	Seal, Rubber (Left or right hand side lower section)	1
309024	Seal, Rubber (upper right section)	1
309025	Seal, Rubber (upper left section)	1
682838	Scraper, Plastic	1
682384	Towel, Chix (pack of 50)	1/12
292344	Spacer, Rubber	1

Note: *Material can be obtained through regular channels*.

PROCEDURE

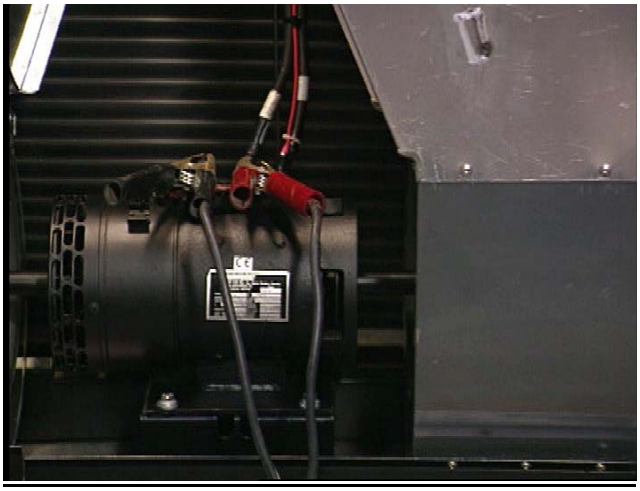
Warning: *Park vehicle safely, apply parking brake, stop engine and set battery master switch(es) to the OFF position prior to working on the vehicle.*

PART A INSPECTION OF BODY

1. If a water chamber is available, perform water test to detect where water infiltration occurs.
2. If a water chamber is unavailable, soapy water test must be used. In order to perform this test you must increase pressure inside vehicle using evaporator motor.

Note: *We recommend that soapy water test be performed every 4 to 6 months.*

3. Open evaporator compartment door, remove two cables (red and black) located on top of motor and mark them to facilitate reinstallation. Use a 24V charger and battery, connect battery to motor terminals. Ensure that fresh air damper switch located on R. H. lower control panel is in fresh air admission position (not pushed down).



4. Use spray or brush to apply soapy water on roof joints where you suspect a leak. E.G.: Antenna, marker lights, roof escape hatches, riveted joints between lateral aluminum extrusion, aluminum sheet and front and rear cap.
5. If you notice a crack in one of the roof joints and water infiltration is present in vehicle, remove plastic moulding located at window top inside vehicle and check for water runners or rust.

Note: *If water infiltration is present in antennas or marker lights, refer to Service bulletin 96-22.*

6. Spray or apply soapy water along rear lateral joint of left and right panels.
7. Soap bubbles will appear where water infiltration is present, note the location.

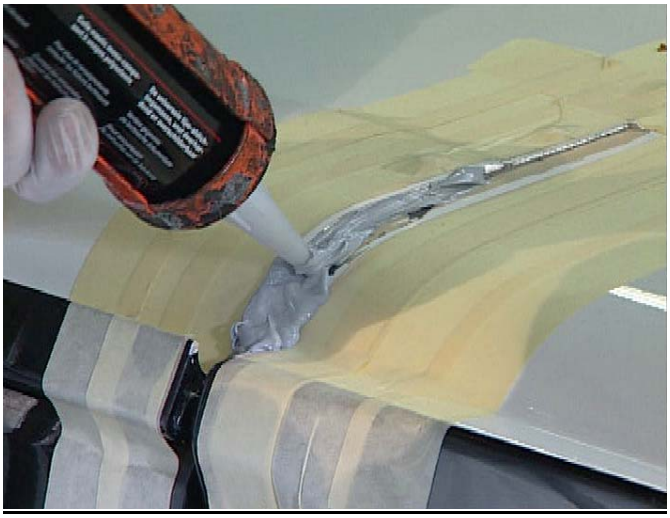
8. Disconnect battery from evaporator motor and reconnect motor cables.
9. Open vehicle side windows and verify adherence of lateral panel at the bottom of the window on each side of vehicle.

PART B BODY JOINTS REPAIR

1. Wash vehicle carefully to remove soap, dirt and dust. Dry joint before repairing using compressed air and towels.
2. Apply masking tape on each side of joint in order to protect vehicle finish before removing sealant.
3. Scrape joint and remove sealant using knife, scraper or screwdriver, use compressed air often to clean and dry the joint. Clean the joint with a scrubber then finish with compressed air.

Warning: *Wear latex or rubber gloves prior to manipulate Sika products. Avoid vapor breathing. No smoking.*

4. Prepare surface and use Chix towel (Prévost # 682384) to clean the joint using Sika 205 (Prévost # 683096).
5. Apply Sika 221 sealant (Prévost # 680532 or 682176) along the joint forcing sealant into the joint.



6. Remove excess of sealant using plastic scraper (Prévost # 682838), apply second coat if necessary and use scraper to obtain as smooth a finish as possible.

7. Carefully remove masking tape, remove sealant smudge with a dry towel.

8. Spray the joint with water to speed up hardening process.

Note: *Repeat step 8 regularly when water has dried out over the joint. Hardening time will be shorten if humidity level is high.*

9. Wait for twelve (12) hours before painting the joint.
10. Apply masking tape around joint to protect vehicle finish before painting. Paint using spray paint or brush.
11. Carefully remove masking tape.
12. Wait at least twelve (12) hours before retesting vehicle.

PART C WINDSHIELD SEAL REPAIR

1. If necessary, remove damaged windshield section with care.
2. Remove existing rubber seal and scrape old sealant.

Note: *If leaks are present and windshield is not damaged, keep the windshield and replace rubber seal only.*

3. Mesure rubber seal and dry fit to ensure proper seal was ordered (Prévost #309023, 309024 or 309025).

4. Clean windshield and windshield section frame using Sika 205 cleaner (Prévost # 683097) and allow to dry for 1 to 2 minutes.

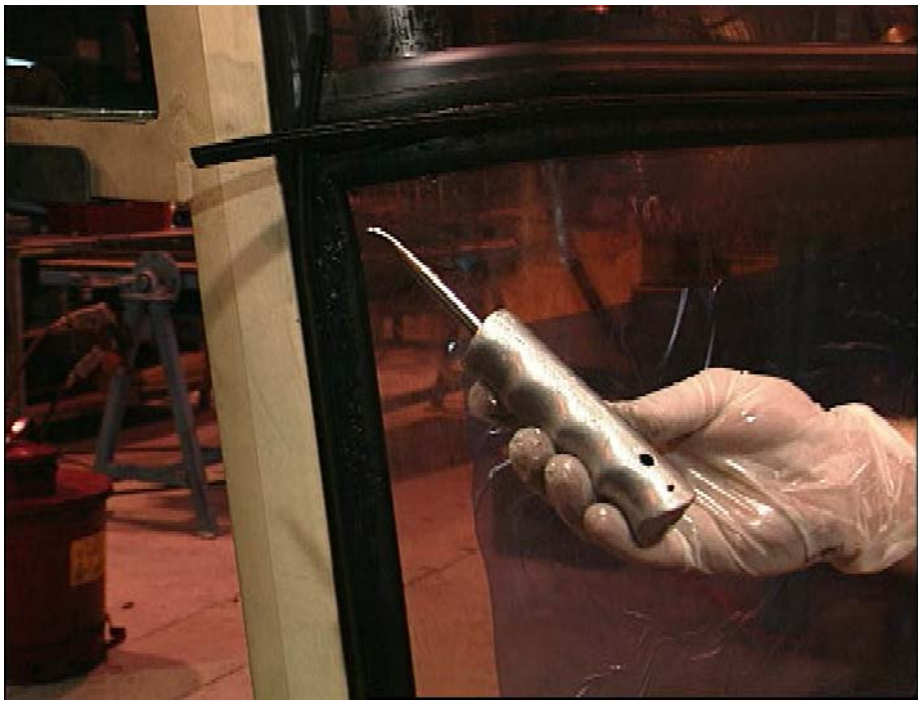
5. Clean rubber seal using Sika 205 cleaner, check for possible rubber seal defects which might cause water infiltration and allow to dry for approximately 2 minutes.
6. Apply masking tape inside window frame to protect interior finish.
7. Apply two ¼″ (6mm) diam. beads of Sika 255 sealant (Prévost #681092) on the exterior of windshield upper section frame and three beads on the exterior of windshield lower section frame. Apply also one Sika 255 sealant bead inside rubber seal groove where windshield section is inserted.

8. Install rubber seal onto windshield section frame.

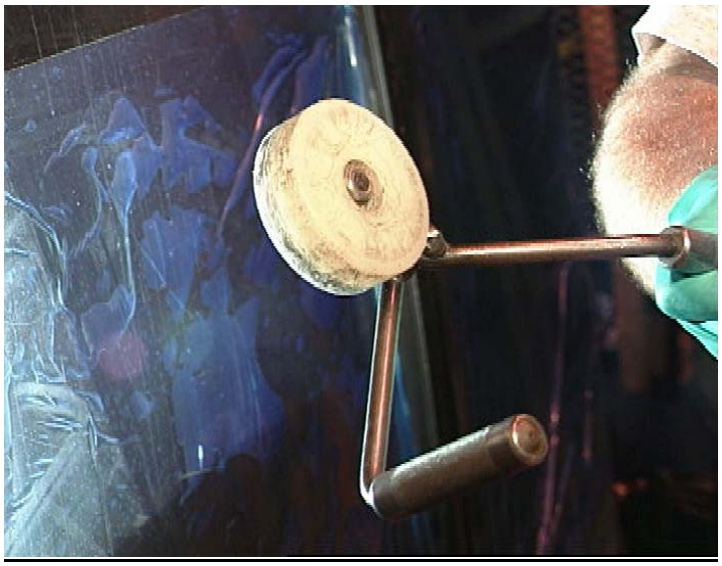
9. Spray rubber seal with soapy water to ease windshield insertion.
10. Slide windshield section into rubber seal groove from top to bottom using filler tool (Prévost # 790370).

11. Remove sealant excess using Chix towel (Prévost # 682384) soaked with Sika 205 cleaner.
12. Apply petroleum jelly (vaseline) into rubber seal groove to facilitate filler insertion.

Note: *Cut filler at a 45° angle leaving ½″ of excess lenght to thwart filler contraction over time.*



13. Use Kleen-sol to remove excess of vaseline.
14. Insert Sika 255 sealant tip between windshield and rubber seal and apply a sealant bead. Use plastic scraper (Prévost # 682838) to remove excess.
15. Apply a finishing roller over filler joint to ensure positioning and proper sealant distribution.



16. Use a Sika 205 soaked towel to clean windshield.

17. Apply masking tape over and around rubber seal on windshield frame leaving ¼″ between the two in order to make finish seam using Sika 255. If needed, spay with soapy water and smooth down joint with finger, then spray with water to speed up hardening process.

PART D REAR CAP WINDOW

1. Inspect window to detect damages, scratches etc.
2. Scrape window edge using a scraper or utility knife.

3. Clean window side which will be pressed against Sika 255 sealant (Prévost # 681092) using Sika 205 cleaner (Prévost # 683097) without making any back and forth movement. Allow to dry for 5 minutes.
4. Scrape window frame to remove existing sealant, dirt or dust. Clean windshield frame using Sika 205.
5. Apply masking tape around window edge on both sides leaving 1/8″ free to ensure a professional finish. Trim carefully at rounded edges.
6. Apply masking tape around window frame leaving 1/8″ free beside window frame interior corner.

7. Install two ¼'' thick rubber spacers on windshield frame bottom to center windshield. Use rubber spacer (Prévost # 292344) and cut in half, **if using something else, ensure part is compressible and clean.** Apply a Sika 255 sealant bead sufficient to fill window frame interior corner.
8. Install window into frame, press against window and apply masking tape at each corner to temporarily secure window.
9. Using Sika 255 sealant fill the space between window edge and frame.

10. Using plastic scraper (Prévost # 682838), remove excess sealant. If needed, spray with soapy water and smooth down using finger.
11. Carefully remove masking tape.
12. Spray sealing joint with water to speed up hardening process.