

Issue Severity:

- High:** Act immediately
- Medium:** Bosch Security Systems strongly recommends you take the action(s) described below.
- Low:** Advisory

Products Affected:

- VG4 AutoDome Modular Pipe Mount kit
- VG4 AutoDome Modular Roof Mount kit
- VG4 Pipe Mount Interface Board (VG4-A-9543) without a visible date code stamped as shown in Fig. 3.

1.0 Issue

VG4 Series Roof Parapet and Pipe Mount installations have the potential for moisture ingress into the AutoDome due to

- Epoxy separation on the Pipe Mount Interface board, or
- Insufficient sealing of the down pipe/Dome Cap assembly by installers in the field.

Water leaking through the assembly can affect the Pipe Mount Interface board. A manufacturing defect that caused an epoxy separation on the boards may allow moisture to enter the pendent and could cause the AutoDome to fail.

1.1 Epoxy Separation

The epoxy that adheres the Pipe Mount Interface Board to the rest of the assembly can fail. This issue may cause the AutoDome to fail and may induce corrosion.

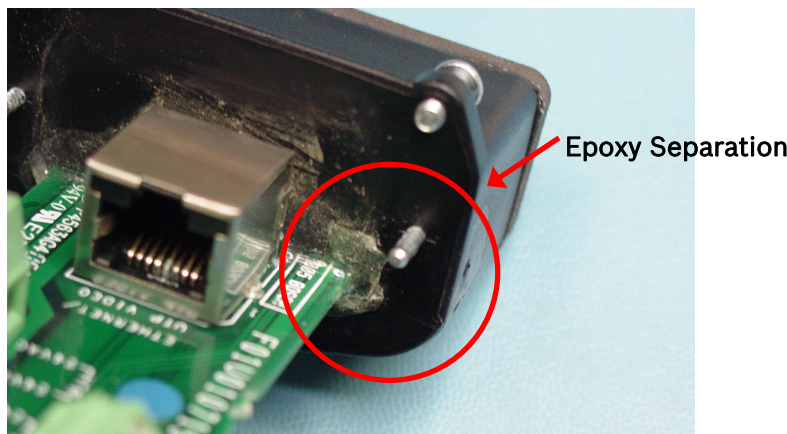


Figure 1: VG4 Pipe Mount Interface Board showing Epoxy Separation

2.0 Resolution

This section provides information for obtaining a new VG4-A-9453 Pipe Interface Board. If you notice epoxy separation or are experiencing water ingress, contact Bosch Customer Service at 888-289-0096 for a return authorization. Bosch will send you a replacement a Pipe Mount Interface Board, at no charge.

2.1 Improvements

November 2007

The epoxy process and material were re-engineered to address this problem effective November 2007. This improved manufacturing process ensured a better seal. If the pipe board interface board was flexed beyond a certain point during installation, however, it was still possible for this new seal to separate with a hair line fracture that would eventually allow water ingress.

July 2009

The physical layout of the VG4-A-9453 Pipe Interface Board has been redesigned to eliminate the effects of water inside the pipe. The base of the Pipe Interface Board has been extended to shift the seal location higher in the pipe. This raised seal also prevents the flexing of the board from damaging the seal. This change has been implemented and the new design began shipping in July 2009.

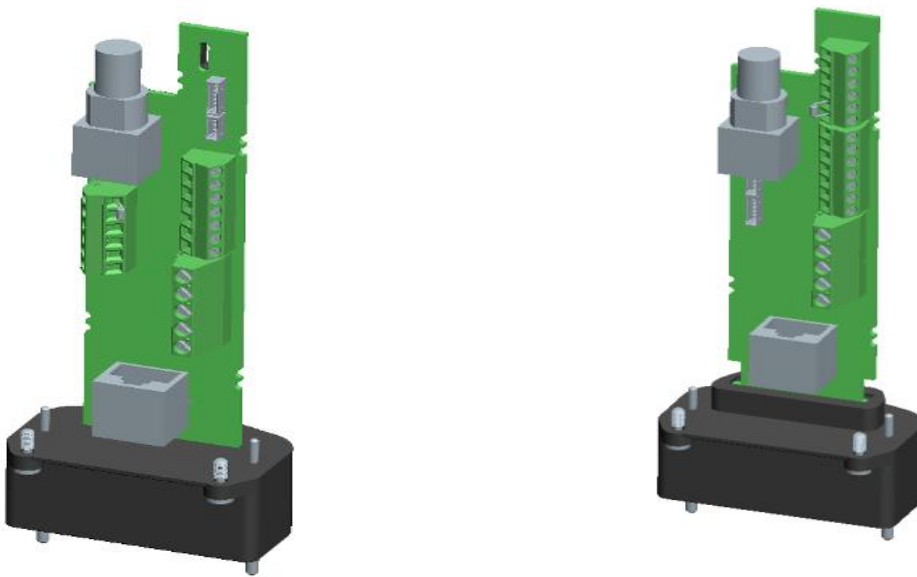


Figure 2: VG4-A-9453 Pipe Interface Board: original design (left) and new design (right)

The new design is distinguished with a “blue dot” label on the board and has a Date Code stamped onto the black over mold at the base of the assembly. The Date Code is in the YYWW format, where YY is the 2 digit year and WW is the 2 digit week. For example, the date code 0918 is week 18 of 2009. The original design did not have the raised edge and does not have a date code.

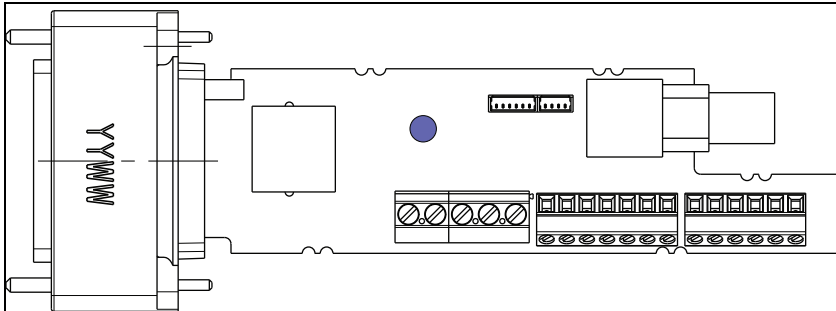


Figure 3: New VG4-A-9543 Pipe Interface Board

2.2 Testing

Extensive testing was done of both the original design and the new design in side by side comparisons. The interface board was exposed to standing water for extended periods of time under the following conditions:

- **Temperature:** Low, High, and cycles between the two extremes.
- **Flex test:** Repeated cycles of flexing the board to the maximum amount allowed inside a standard 1.5 inch NPT pipe.
- **Plugged weep hole:** The weep hole was purposely blocked to simulate the extreme condition.

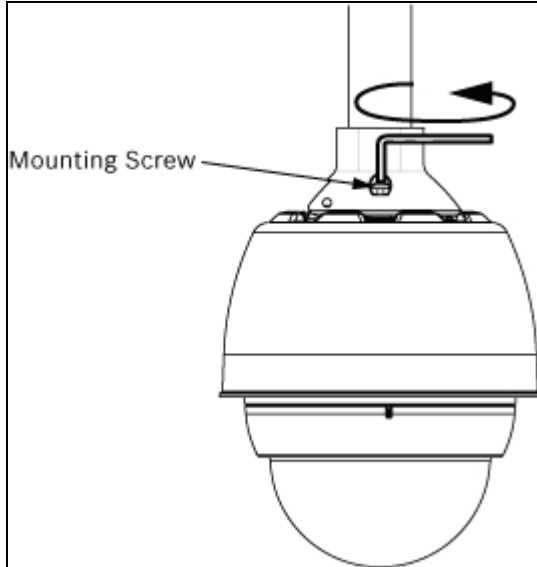
2.3 Results

The new design passed all test cases, even with the weep hole completely blocked. The original design would pass static conditions, but always failed when a stress or flex was applied.

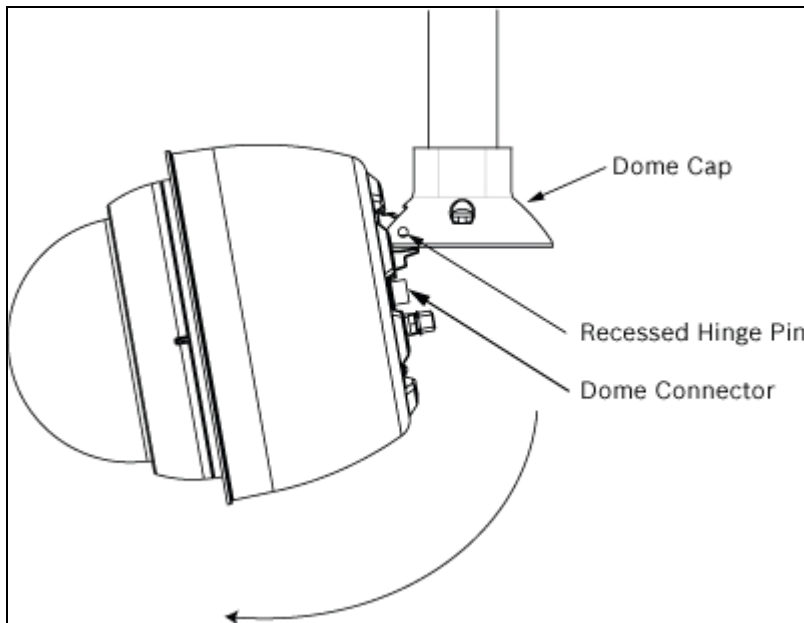
3.0 Replacing the Pipe Interface Board

The following procedure provides instructions for replacing the interface board in a Parapet Roof Mount or in a Pipe Mount installation.

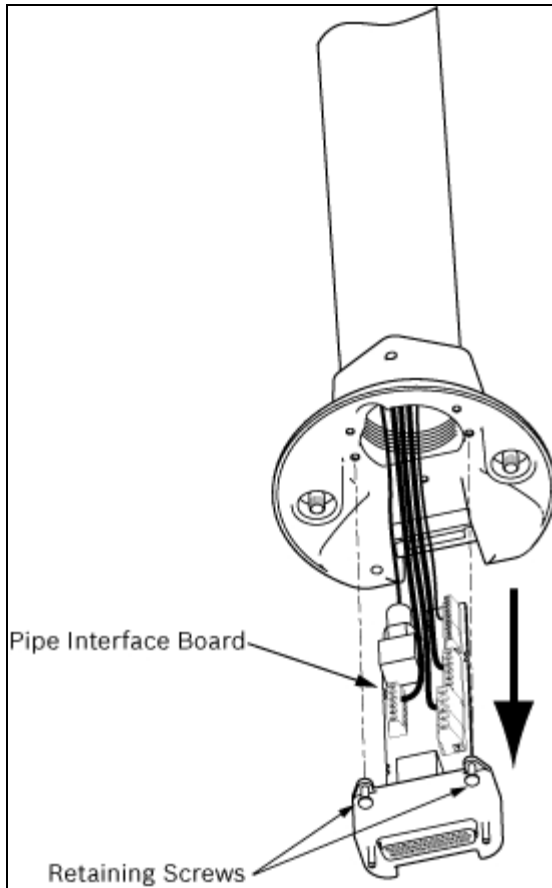
1. Remove the AutoDome Pendant from the Dome Cap by unscrewing the two mounting screws from the top of the Dome Cap.



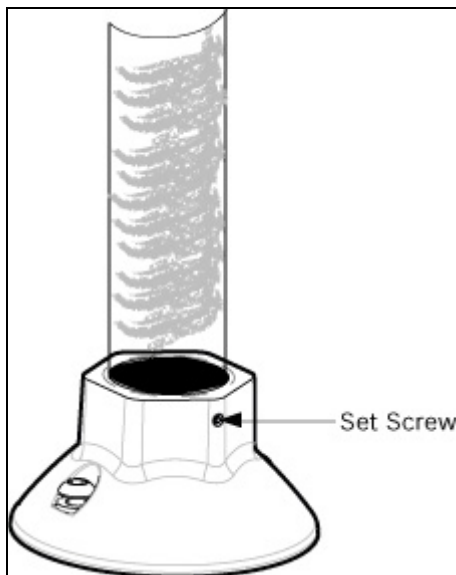
2. Slowly swing the Pendant away from the Dome Cap and remove it from the recessed hinge pin.



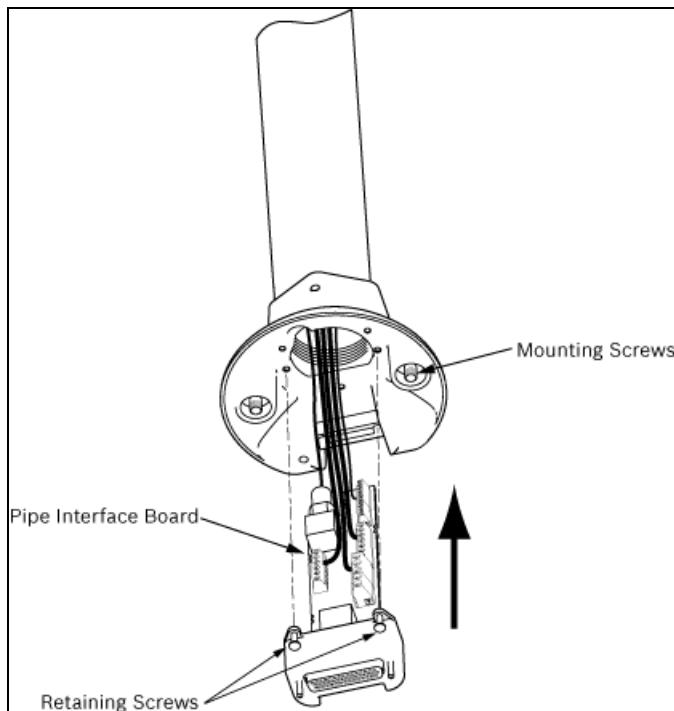
3. Disengage the retaining screws that secure the Pipe Interface Board to the Dome Cap.
4. Disconnect the wires from the Pipe Interface Board. Set aside the board.



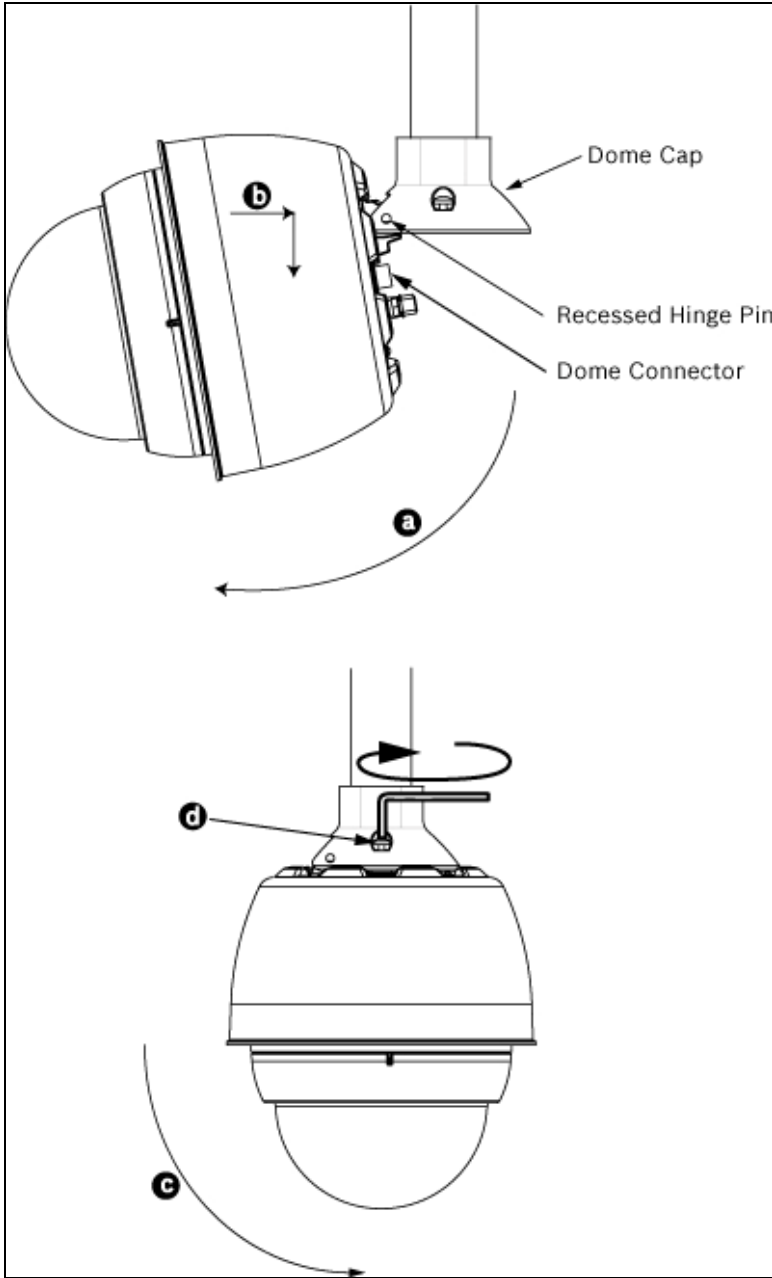
5. Disengage the set screw from the Dome Cap.



6. Carefully unscrew the Dome Cap from the down pipe. Do not entangle nor put excess stress on the cables.
7. Remove any tape from the down pipe threads and from the threads inside the Dome Cap and the Pipe Flange.
8. Dry any moisture that may be present on the threads and inside the Dome Cap or the Pipe Flange.
9. Wrap the down pipe threads with at least 5 layers of Teflon tape (included with the new board).
10. Inspect the weep hole in the pipe cap to ensure that it is clear.
11. Thread the Dome Cap onto the down pipe and tighten securely.
12. If necessary, hand-tighten the set screw on the Dome Cap taking care not to over tighten the screw. Do not use a wrench and torque this fastener. Doing so may disrupt the thread interface and provide an ingress path for moisture.
(Tightening this set screw is optional. The screw will be discontinued from the product; it is not required to secure the pipe to the Dome Cap assembly.)
13. Reconnect the wires to the Pipe Interface Board.
14. Insert the Pipe Interface Board into the down pipe and fasten the three (3) retaining screws to secure the board to the Dome Cap.



15. Mount the Pendant to the Dome Cap. Use the following illustration:



- a. Tilt the Pendant enough to place its mounting hook on top of its housing, over the recessed hinge pin of the Dome Cap.
- b. Drop the Pendant down slightly to engage the dome hook and hinge pin of the Dome Cap, allowing the dome to rotate around the hinge pin.
- c. Rotate the dome housing down to a vertical position and gently push upward to engage the connector on top of the dome housing.
- d. Hold the housing firmly in position and alternately tighten the two (2) 5-mm Allen head mounting screws from above to a torque value of 10-12 N-m (90-105 in.-lbs).