

INSTRUCTION MANUAL

Orion® AllSky™ Heater Replacement

#52187 AllSky, #52191 AllSky II

Required Tools

- Replacement Heater Component
- Replacement 50Ft Video Cable
- Replacement 50Ft Power Cable
- AllSky Tamper-Proof Allen Key
- Medium Size Philips Head Screwdriver

Warning: Disconnect all external cables (video, power and serial cable) from AllSky unit before proceeding.

Step 1 - Removal of Dome Bubble

To remove Dome Bubble use the AllSky Tamper-Proof Allen key to unscrew the four vandal-proof screws on the top of the StarShoot AllSky Camera (SASC).

Be careful not to hit the acrylic dome with the allen key, screws or other hard objects. Also be careful not to lose the non standard Tamper-proof allen key.

Carefully lift the dome cover directly upwards from the base and place in a safe location. Be careful not to touch the lens to avoid having to clean it. (Cleaning supplies sold separately by Orion.)

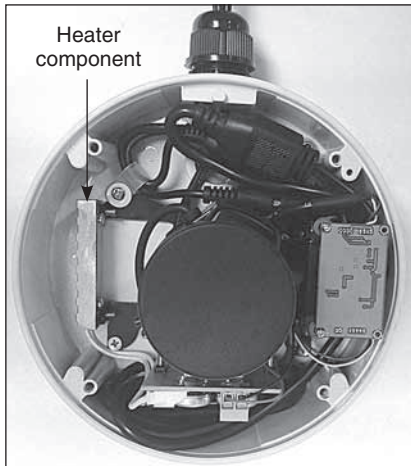


Figure 1. AllSky unit with dome bubble removed.

Step 2 - Removal of the RS-232 Circuit Board

If model is AllSky Version I (no computer control) proceed to Step 3. If model is AllSky Version II (with computer control) remove the two screws and washers holding the small circuit board in place (Figure 2).

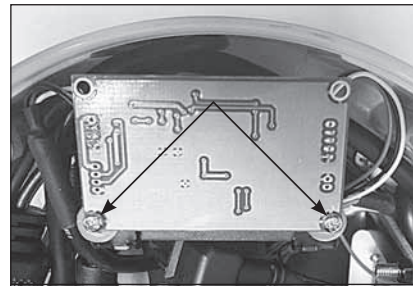


Figure 2. RS-232 Circuit Board.

Step 3 - Removal of the Camera Bracket from Base

Using a Philips head screwdriver unscrew the four screws that attach the camera bracket to the base unit in order to gain access to the heater component (Figure 3).

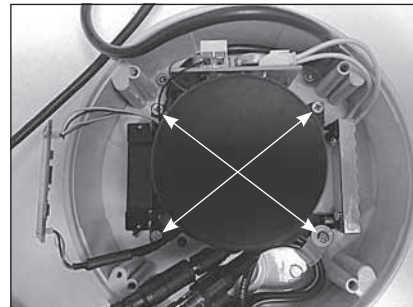


Figure 3. Camera bracket screws.

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Step 4 – Replacing the Heater Component

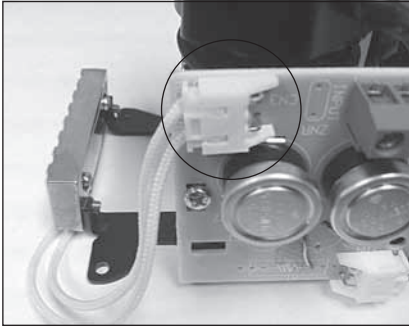


Figure 4. Heater Wire Plug.

Firmly hold the white connector attached to the larger circuit board with one hand while using the other hand to pull the plug out in order to prevent the white connector from becoming detached from the larger circuit board when pulling out the heater cable (**Figure 4**).

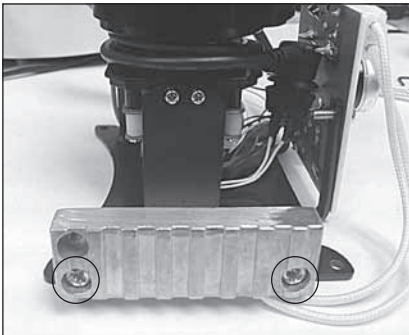


Figure 5. Heater Screws.

Remove the two screws holding the heater component in place (**Figure 5**) and attach replacement heater component using same screws and then plug heater cable into white connector on circuit board (**Figure 4**).

NOTE: *The replacement heater holes may need to be cleared using a screwdriver to remove any material from holes.*

Step 5 – Re-Installation of Camera Bracket to Base

Use the 4 screws to re-attach camera bracket back onto base (**Figure 3**).

WARNING: *Since the heater becomes hot to the touch in cold climates, care must be taken to ensure that the internal wires do not come into contact with the heater to avoid accidental melting and damage to internal wires. Wires should be held down with the original cable fastener (**Figure 6**) and the lens cable wrapped around the camera to keep it away from the heater.*

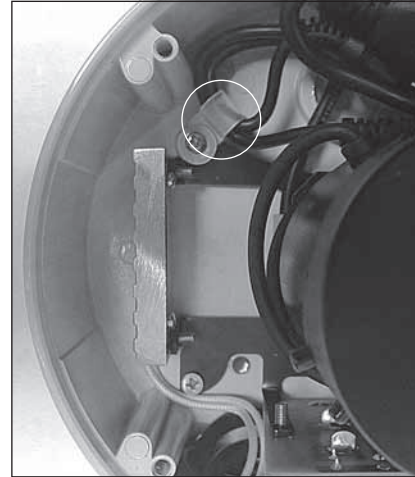


Figure 6. Cable Fastener.

Step 6 – Re-Installation of the RS-232 Circuit Board

For AllSky II units check that the thicker camera cable is wrapped behind the larger circuit board and not free to move near heater. After checking that all wires have been secured away from the heater the small circuit board can now be reattached using the two small washers and screws (**Figure 2**).

Step 7 – Re-Installation of the Dome Bubble

Carefully line up the groove on the inside of the dome cover with the notch on the base and gently allow the cover to drop into place. The dome cover should now be seated evenly and all four screws lined up ready for installation.

Using the allen key, gently tighten each screw until a small bit of resistance is felt, then move onto the next screw. Repeat for all screws. Next tighten each screw more firmly and evenly to help ensure a weatherproof seal.

Please use the replacement DC and RCA cable to avoid issues when heater turns on in cold conditions.

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