



DAY/NIGHT SOLAR VENT

INSTALLATION INSTRUCTIONS

(PART #'S: N20803W, N20803S, N20804W, N20804S)



Day/Night Components:

- 1) Vent unit with Solar Array
- 2) Pre-Installed Rechargeable Battery
- 3) Removable Insect Screen
- 4) (2) Trim Rings – Interior & Exterior
- 5) Exterior Trim Ring Gasket
- 6) Solar Vent Base Gasket

To ensure that you successfully complete your installation, carefully follow these instructions. Make sure to review the following Precautions before you begin.

FEATURES & OPERATION

Switch Operation

The Day/Night features two switches located on the bottom of the battery compartment. The three-position fan switch can be set to 'Intake', 'Exhaust', or 'Off' positions. The second switch controls 'On'/'Off' operation of the LED accessory light. When both switches are set to the 'Off' position, all current produced by the solar array is used to charge the battery.

Shut-off Damper

The Day/Night VENT is equipped with a green water shut-off damper which can be operated from below. There are two ears on the inside edge of the fan housing.

To open and allow outside air flow, pull the damper down about a 1/2" (13 mm). To close, push it up until it rests and seals against the vent cover. The damper may need lubrication occasionally if it is hard to open and close. To lubricate, apply a small amount of silicone grease to the damper.

NOTE: To prevent unnecessary wear on the motor, switch the vent to the off position when the shut-off damper is in the closed position.

Rechargeable Battery

Each Day/Night vent is equipped with a built-in replaceable battery. The solar array keeps the battery charged during daylight hours so that it can run the fan at night and during low light situations. The Day/Night will run for up to 24 hours without sunlight on a fully charged battery. Average battery life is 3-5 years, depending on climate conditions.

NOTE: To maximize battery life, make sure it is fully charged as possible during initial use. To fully charge, expose vent to the sun, (not a light bulb) for 24 to 36 hours. This will insure a fully-charged battery. (Depending on angle to the sun, weather conditions, and shadowing of the solar array, the time necessary to charge the battery may vary.)

Insect Screen

Your new vent comes with a removable insect screen that attaches to the shut-off damper. Installation of the insect screen is optional. The screen is easy to install/remove by grasping the fins on the outside of the screen and carefully twisting. Make sure to clean the insect screen periodically to ensure maximum air flow.

INSTALL PRECAUTIONS

DECK CAMBER (OR DECK CURVATURE) is VERY CRITICAL: When installing the Day/Night Vent on a cambered, or curved, surface, it is critical to check to make sure there is no more than 1/2" (12 mm) of camber over a 12" (300 mm) length of deck surface. Too much camber will distort the unit's base plate, causing the cover to be raised off the deck. This creates the potential for water to get under the cover and may also prevent the damper from closing properly.

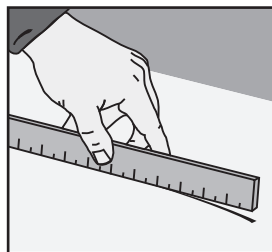
To check for camber, place a 12" (300 mm) straight edge on the deck location for the vent and try to rock it. Then rotate it 90 degrees and repeat.

IMPORTANT!

Cut the hole for your Day/Night Vent only after carefully considering the location and the correct sizing of the hole. We recommend that you **MEASURE TWICE AND CUT ONCE!**

DO NOT Install the Day/Night Vent in an area with more than 1/2" of camber over a 12" length of deck surface.

CAUTION: Confirm the location you select for the mounting hole does not go through any electrical wiring, plumbing or other obstructions. Be sure that power tools are properly grounded. Take the time to bed the exterior trim ring and fasteners properly with sealant. Silicone sealant is good for flat installations on wood or fiberglass. Polyurethane bedding compound is recommended on cambered surfaces or hatch installations where fasteners will not be used. Use of polysulfide compounds, may damage the area and melt the plastic.



NEW INSTALL INSTRUCTIONS

- 1) Select an installation location that is as flat as possible. There should be no more than 1/2" of camber per foot.
- 2) Mark the location of the hole using a compass.
- 3) Using a hole saw or sabre saw, cut a 3-3/4" diameter hole for the 3" vent, or a 4-3/4" hole for the 4" vent.
- 4) Drill pilot holes for screws, bed the exterior threaded trim plate and screw into the deck.
- 5) Turn the vent unit into the trim plate until fully seated onto deck surface.
- 6) Turn the interior threaded trim plate into place until flush with ceiling surface. Drill and fasten with screws if desired.

MAINTENANCE

Your Day/Night Vent is a maintenance-free ventilator. However, it is recommended to periodically clean the solar array with a mild cleaner to ensure the vent charges continuously and receives maximum sunlight. If after a few years of operation the battery is no longer performing at peak performance, replace it with part N20890—NiMH Replacement Battery Pack.

The battery can be replaced by carefully unscrewing the switch housing which acts as the battery compartment cover. Be careful not to pull the wire leads from the battery compartment cover. Unplug the wire leads connecting the battery pack to the switch housing, and remove the battery pack. Take care not to over-stress the wire leads when reinstalling the battery compartment cover.

Trouble Shooting—Day/Night Vent Stops Running:

- Check the On-Off Switch—Make sure the switch is on.
- Check the Solar Array—Make sure the solar array has adequate exposure to sunlight and is not in a shaded area.
- Check/Replace the Battery—If the switch is on and the vent is not working, the battery may be dead. A dead battery short circuits the solar array and will not deliver power to the motor. Test the vent without the battery in it by placing the array in direct sun to see if the motor turns (make sure the switch is on). If the motor turns, the battery is dead.

NOTE: The vent will work without the battery, but only during sunlight hours.

- Check the Solar Array & Fan Motor

If the motor still did not turn when the battery was removed, either the array is damaged or the motor does not work. Contact Technical Service for warranty concerns.