

INSTALLATION SUPPLEMENT

WeatherStation® Instrument for Models: 110WXS, 150WXRS, 150WXS, 200WXRS

Replacement Humidity Sensor 33-760-01

Patent <http://www.airmar.com/patent.html>

D-17-634-01-rev.3 17-634-01-rev.3 01/10/19

Follow the precautions below for optimal product performance and to reduce the risk of property damage, personal injury, and/or death.

WARNING: Always wear safety glasses, a dust mask, and ear protection when installing.

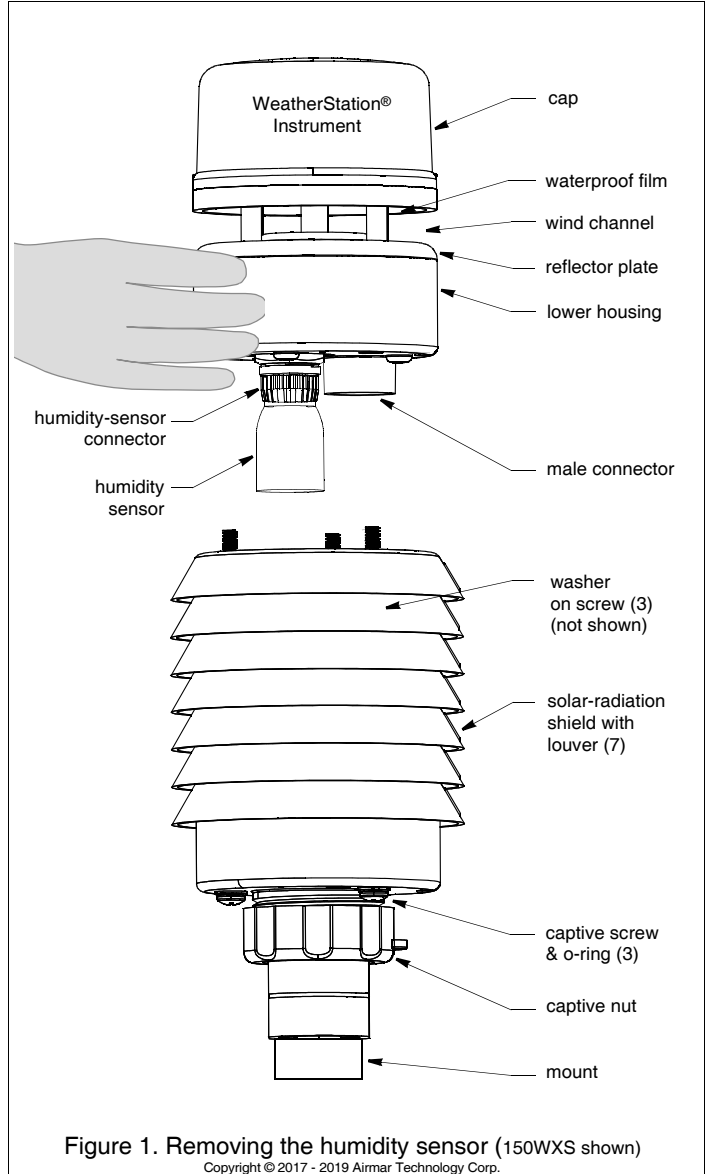
CAUTION: Remove, tighten, or align the WeatherStation Instrument by grasping the lower housing below the reflector plate.

- Do not rotate the cap. Turning it may sever internal connections and void the warranty.
- Do not grasp the solar-radiation shield. The louvers may break.
- Hand tighten only.

CAUTION: Do not drop the WeatherStation instrument. The louvers on the solar-radiation shield may break.

CAUTION: The reflector plate and the waterproof film found in the wind channel of the WeatherStation Instrument are essential to its operation. Be careful not to scratch the plate, puncture the film, or damage them in any way.

IMPORTANT: Read the instructions completely before proceeding with the installation. These instructions supersede any other instructions in your instrument manual if they differ.



Tools & Materials

Safety glasses
Dust mask
Ear protection
Phillips screwdriver

Installation

1. To remove the WeatherStation instrument from its mounting hardware, grasp the instrument's lower housing and unscrew the captive nut (Figure 1).

NOTE: Be careful not to drop the WeatherStation instrument because the louvers on the solar-radiation shield are breakable.

2. Disconnect the WeatherStation cable. Cover the connector with its protective cap.
3. To separate the solar-radiation-shield section from the lower housing, unscrew the three captive screws. *Be careful not to drop the washers. There is one on each screw.*

NOTE: The screws and O-rings will remain captive in the solar-radiation shield. (They will not fall out.) However, the washers are loose. (There are extras included in the kit.)

4. To remove the humidity sensor, grasp it by the black humidity-sensor connector and turn it clockwise.

5. Install the new humidity sensor (Figure 2). Grasp the humidity sensor by its connector. Push the sensor onto the humidity connector and turn counterclockwise until you feel it stop.
6. Carefully align the solar-radiation shield section with the lower housing of the WeatherStation instrument. Push the two sections together.
 - Be sure there is a washer on each screw.
 - Be careful that the humidity sensor fits into the hole in the top of the solar-radiation shield.
 - Be careful to align the male and female connectors.
7. Reattach the two sections of the WeatherStation instrument by pushing the three captive screws into the lower housing. Tighten the bolts until snug. Then turn 1/2 turn more. Do not exceed 1.3N-m (1 ft-lb) of force. **Do not over tighten.**
8. Remove the protective cover from the WeatherStation cable connector. (Save the cap to protect the connector, when the WeatherStation Instrument is removed.) Plug the connector into the bottom of the solar-radiation shield section of the WeatherStation Instrument. The alignment key on the connector fits into a notch in the base of the WeatherStation Instrument (Figure 3).
9. To accurately measure the wind direction, be sure to orient the alignment notch correctly. Grasp the *lower housing* of the WeatherStation Instrument below the reflector plate and hold it in the proper position (Figure 2).
 - Moving vehicle—The alignment notch must point forward and be parallel to the centerline of the vehicle.
 - Stationary—It is recommended that the alignment notch point toward true north.
10. Reattach the WeatherStation instrument to the mounting hardware. Slide the captive nut upward and screw it onto the solar-radiation shield section of the WeatherStation Instrument (Figures 2 and 3). **Hand tighten** only. Do not over-tighten.

NOTE: Be careful not to rotate the WeatherStation Instrument, changing the alignment or loosen the nut assembly from the mounting hardware.

11. Recycle the used humidity sensor.

Replacement Parts

Obtain parts from your instrument manufacturer or marine dealer.

Gemeco

USA

Tel: 803-693-0777

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Airmar EMEA

Europe, Middle East, Africa

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email: sales@airmar-emea.

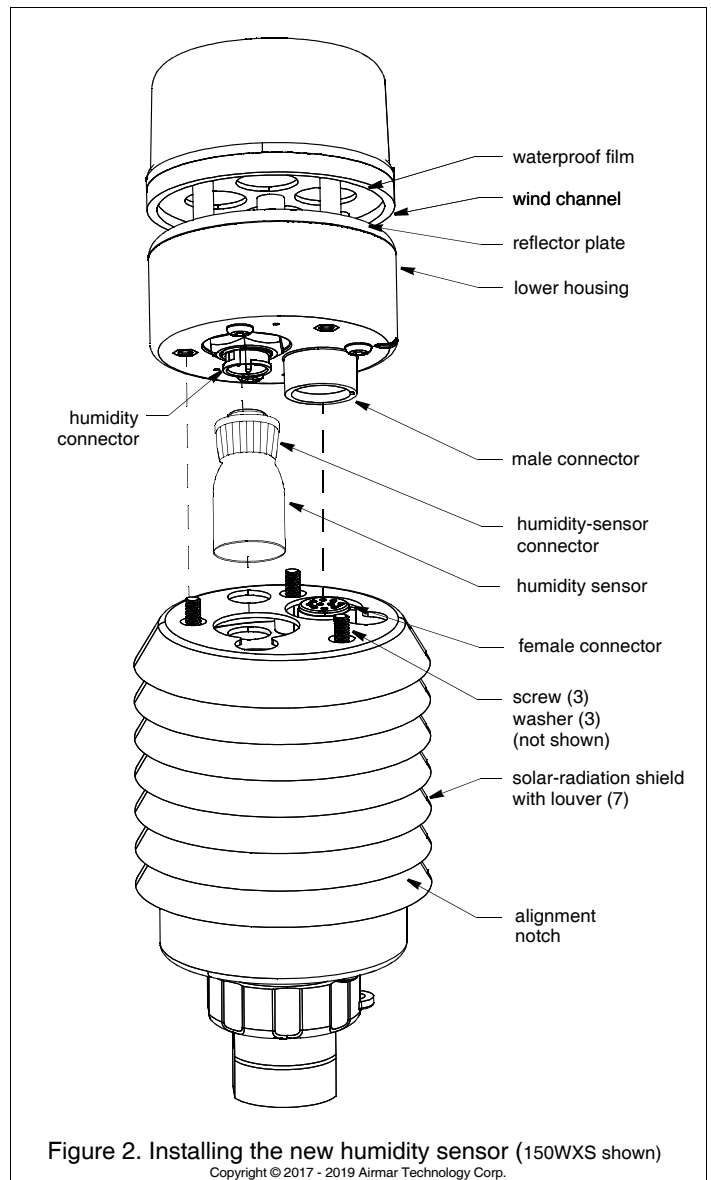


Figure 2. Installing the new humidity sensor (150WXS shown)

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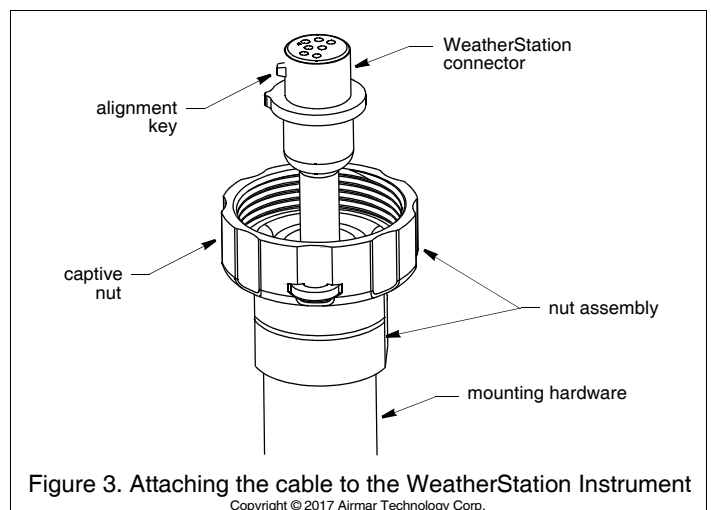


Figure 3. Attaching the cable to the WeatherStation Instrument

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