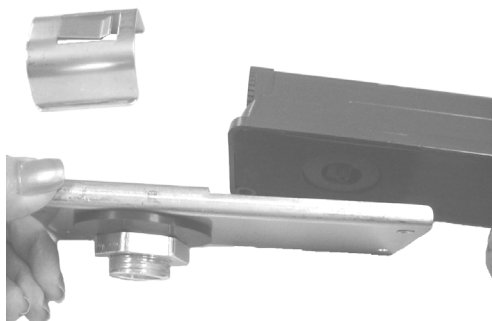


Note: You receive the Savi SensorTag ST-673 and metal mounting sleeve fully assembled. You can skip step 1 through step 6 to mount the unit to the jet engine container or you can follow the instructions in step 1 through step 6 if you disassembled the tag and mounting sleeve.

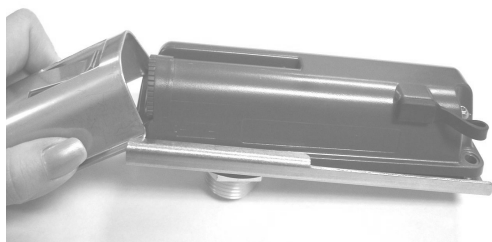
1. Remove the front of the mounting sleeve.



2. Slide the tag into the mounting sleeve until the holes on the tag align with the holes on the back of the mounting sleeve.

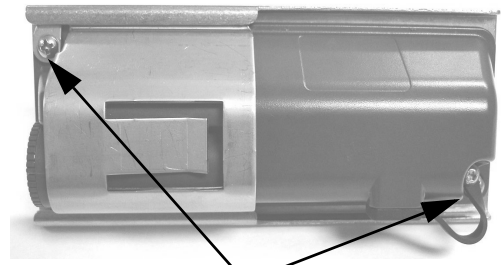


3. Replace the front of the mounting sleeve.



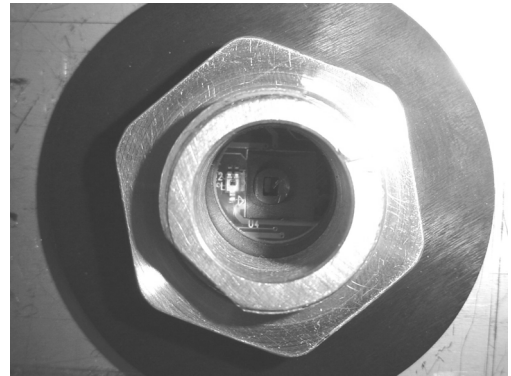
4. Align the hole on the front of the mounting sleeve with the holes on the tag and back of the mounting sleeve.

5. To prevent the tag from dislodging from the tag mounting sleeve as a result of sudden impact or extreme shocks, use the supplied stainless steel screws and washers through the sleeve.

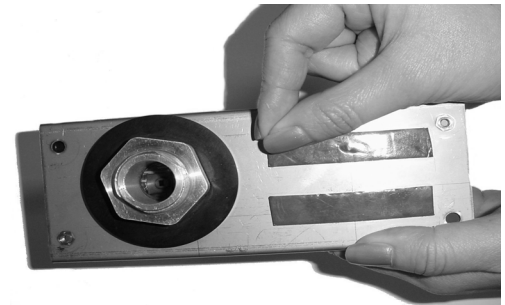


Use supplied screws to washers to secure the tag to the sleeve

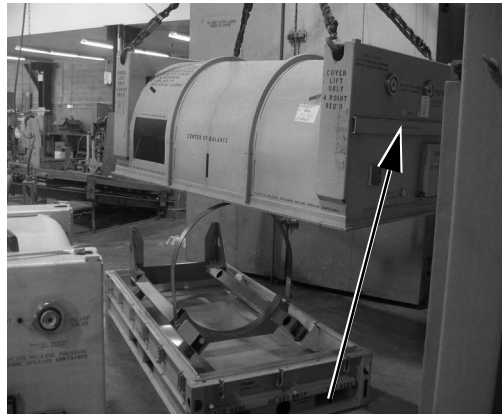
6. Ensure that you can see the sensor filter through the hole on the back of the mounting sleeve.



7. Carefully remove the red protective film covering from the PST on the back of the sleeve. Avoid touching the PST adhesive.



8. Open the jet engine container and locate the humidity detection orifice.

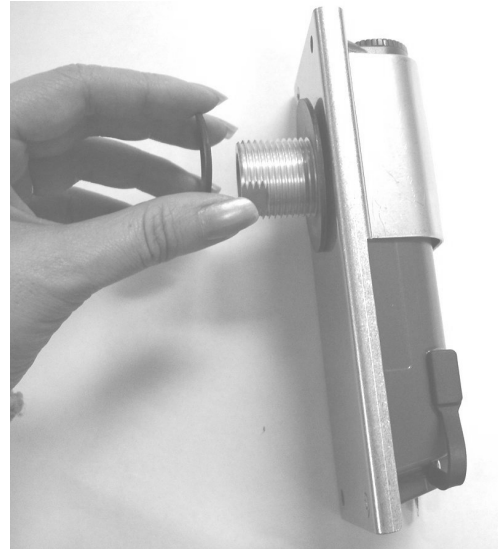


Humidity detection orifice

9. Unscrew the nut on the mounting sleeve.



10. Remove the small rubber gasket washer from the mounting sleeve.

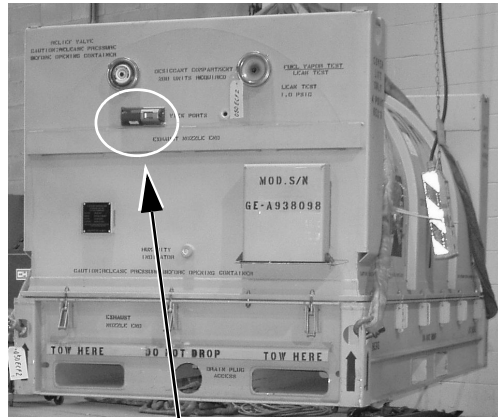


11. To mount the tag, insert the mounting sleeve and tag in the humidity detection orifice.



12. Apply pressure to the tape strips by pushing firmly against the tag. To assure a good bond, apply as much finger pressure as possible and work fingers up and down the area over the tape strips.

13. On the inside of the container, replace the small rubber gasket washer and screw the nut on the mounting sleeve to secure the tag. Close the jet engine container.



Mounted tag

14. If the orifice of the container is too large for the tag to be mounted securely, insert a metal shoulder washer *before* replacing the rubber washer and nut. Ensure that the lip on the metal shoulder washer is inserted through the orifice and is facing the outside of the container.

The metal shoulder washer must be ordered separately.



Savi SensorTag ST-673 Specifications

Specification	Description
Physical characteristics	<p>Length: 6.25 inches (16 cm)</p> <p>Width: 2.13 inches (5.4 cm)</p> <p>Height: 1.13 inches (2.9 cm)</p> <p>Weight: 3.8 oz. (108 g)</p>
Environment	<p>Temperature: -40°F to +158°F (-40°C to +70°C) operating; -40°F to +185°F (-40°C to +85°C) storage; Tested per MIL-STD-810F</p> <p>Humidity: 100% non-condensing</p> <p>Altitude: Maximum altitude = 40,000 feet (12,192m); Tested per MIL-STD-810F</p>
RF receiver/transmitter	<p>Ultra High Frequency transceiver:</p> <p>Frequency: 433.92 MHz</p> <p>Modulation: FSK, deviation +/- 50KHz</p> <p>Data rate: 27.8Kbps</p> <p>Data coding: Manchester</p> <p>Communication range (unobstructed): Typical range is up to 300 feet (91.44 meters) line-of-sight when mounted onto a container and communicating with a Savi Fixed Reader SR-650-101 or SaviReader 410R. Typical range is 200 feet (61 meters) line-of-sight when communicating with a Savi MobileReader SMR-650</p> <p>Maximum transmit power: 0.6mW</p> <p>Air protocol: BCS Commands, EBCS Commands (20-bit and 22-bit tag identification supported); Savi EchoPoint Air Protocol 2.1 (32-bit tag identification supported)</p>

Specification	Description
LF receiver (downlink)	<p>Low Frequency Receiver (downlink)</p> <p>Frequency: 123 KHz</p> <p>Modulation: ASK on-off keying</p> <p>Data rate: Average 1.6 Kbps, 50% duty cycle</p> <p>Data coding: Pulse width modulation</p> <p>Communication range: Up to 3.5 feet (1 meter) from Savi Mobile Reader SMR-650. Up to 12 feet (3.66 meters) from Savi Signpost SP-651 and SP-652-211</p> <p>Air protocol: BCS Commands, EBCS Commands (22-bit tag identification supported); Savi EchoPoint Air Protocol 2.1 (32-bit tag identification supported) and Savi EchoPoint Air Protocol 1.1</p>
Network	Wireless: RF read/write capable
Memory	On board non-volatile 128K user memory for all tags and 32K sensor memory
Hardware compatibility	<ul style="list-style-type: none"> ◆ Savi Mobile Reader SMR-650P (model SMR-650P-110 and SMR-650P-111) ◆ Savi Mobile Reader SMR-650 (models SMR-650-21x) ◆ Savi Fixed Reader SR-650-101 ◆ Savi Signpost SP 651 and SP-652 ◆ Savi Docking Station model SDS-2002 ◆ Savi ST-654 Docking Station Adapter SDSA-654-01 ◆ Savi Tag Write Cable STA-1030 ◆ Savi Tag Write Cable Adapter STA-1031
Antenna	<p>Internal UHF: Omni loop antenna</p> <p>Internal LF: Two integrated ferrite core antennas (orthogonally mounted)</p>
Shock and vibration	<p>Shock: Tested per MIL-STD-810F, 4 feet (1.22 meters)</p> <p>Vibration: Tested per MIL-STD-810F</p>
Protection type	Sealed to IP 54 ISO 1496 weatherproofing requirements

Specification	Description
Power	<p>Battery type: 3.6 volt primary lithium (Li-SOCI2), A size, user replaceable</p> <p>Battery life: Approximately 4 years depending on usage</p> <p>Power management: UHF sleep mode prevents unwanted collections, enabled/disabled by LF link</p> <p>Diagnostics: Reports low tag battery status</p>
Regulatory approvals	<p>Radiated emission (intentional): U.S. emission standards as contained in FCC Part 15 and European Community emission standards as contained in EN 300 220 (433 MHz)</p> <p>Electromagnetic immunity: ESD compliance exposed to 8 kV air discharge or 4 kV contact discharge in accordance with EN 301 489-1</p> <p>Radiated emission (unintentional): U.S. emissions standards as contained in FCC Part 15 and European Community emission standards as contained in EN 301 489-1</p> <p>Safety approval: U.S UL 1950; European EN 60950</p> <p>Ordinance Safety: HERO certification</p> <p>Markings: Savi logo, product model and serial number, EMC compliance (FCC/EN), and Ordinance/HERO</p>
Sensors and indicators	<p>Temperature sensor: Integrated sensor takes temperature readings based on configurable time (in minutes). Default is set to 5 minutes</p> <p>Humidity sensor: Integrated humidity sensor takes readings based on configurable time (in minutes). Default is set to 5 minutes</p> <p>Beeper: Audible beeper for tag location.</p>
Mounting	Metal mounting sleeve with screws and PST for SensorTag ST-673
Software	Savi SmartChain for Mobile Devices, Savi SmartChain Transportation Security System (TSS), Savi SmartChain Site Manager 5.7, Savi SmartChain Client Tools 4.x, Savi SmartChain Mobile Manager 6.x, Savi Retriever 2.1
Accessories	Spare A size batteries; part number BAT-1125

