

About the guide

This is a quick start guide for the Radar Sensor. Use this guide when replacing a Radar Sensor in an EAS Overhead Upgrade, or when converting an EAS Overhead Upgrade which did not come with a Radar Sensor installed. For complete installation and configuration procedures, refer to the *EAS Overhead Upgrade Installation and Setup Guide*, 8200-2697-39.

Technical support

For product bulletins and updates to documentation, if you are a JCI employee or JCI subcontractor, visit <http://sensormatictechsupport.jci.com>, or if you are a business partner, visit www.globalpartneredge.com.

Kit parts

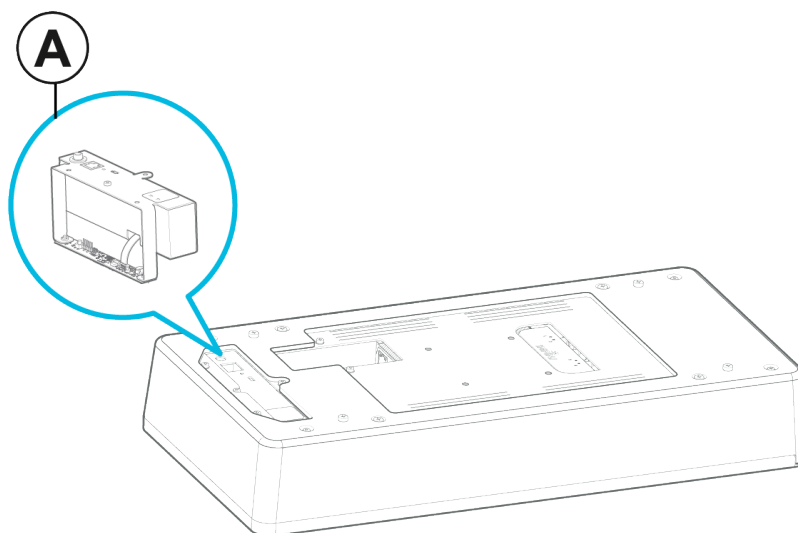
Table 1: Components of a Radar Overhead service kit, 0352-0975-01

Item	Part Number	Quantity
Radar sensor	0101-0826-01	1
M3 x 6 screws	5801-1041-120	3
Washers	5840-0200-020	3

About the product

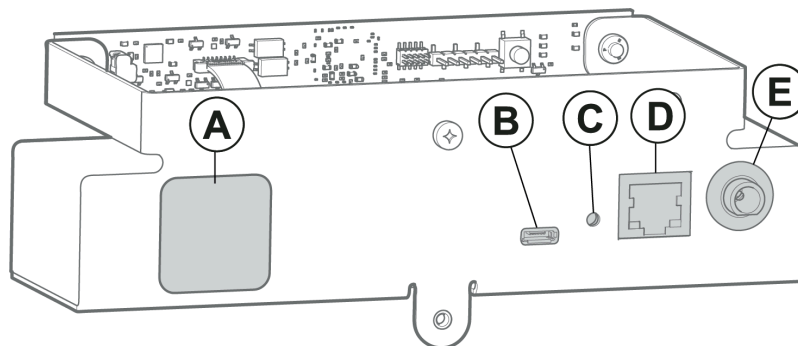
The Radar Sensor is a people counting device, which counts the traffic entering and exiting a store. The information is used to make alarm decisions.

Figure 1: Radar Sensor location in an EAS Overhead Upgrade



Callout	Component
A	Radar Sensor

Figure 2: Radar Sensor connections



Callout	Component
A	RS485 network port. This port provides communication between Sensormatic devices. This port is currently not supported.
B	Service port. This Micro-USB port supports Ethernet over USB.
C	Reset switch. Press this switch to restore the Radar to the factory default settings.
D	10 Mbps Auto MDI/MDI-X Ethernet port. This port accepts PoE.
E	24 VDC power input connector.

Reconnecting the ribbon cable

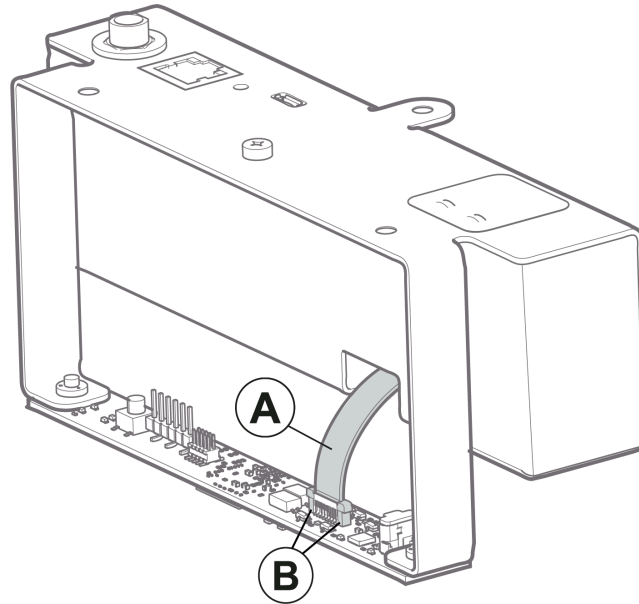
The ribbon cable may disconnect during shipment.

About this task:

If the ribbon cable has disconnected, complete the following steps:

1. Pull the two black tabs on the radar board connector until they lift off the connector.
Note: Ensure that the two black tabs do not separate from the radar board connector.
2. Reconnect the ribbon cable.
3. Press down on the two black tabs of the connector until they are flush with the connector housing. To secure the ribbon cable in place.

Figure 3: Radar Sensor ribbon cable



Callout	Component
A	Ribbon cable
B	Black tabs on the radar board connector

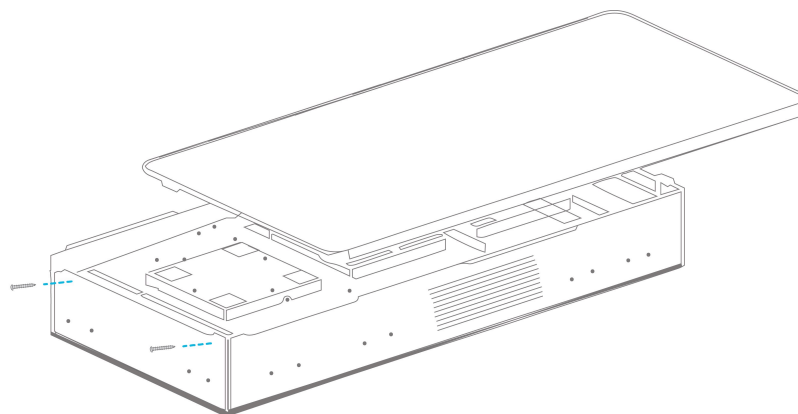
Installing or replacing a radar

To replace an Radar Sensor in an EAS Overhead Upgrade, complete the following steps:

For further details, refer to the *EAS Overhead Upgrade Installation and Setup Guide*, 8200-2697-39.

1. **Optional:** If you are completing a pole mounted installation, remove the cosmetic housing by unscrewing the four screws holding it in place. Place to one side.
2. Remove the cover by unscrewing the two self-tapping screws on the side and sliding the cover out. Place the screws to the side.

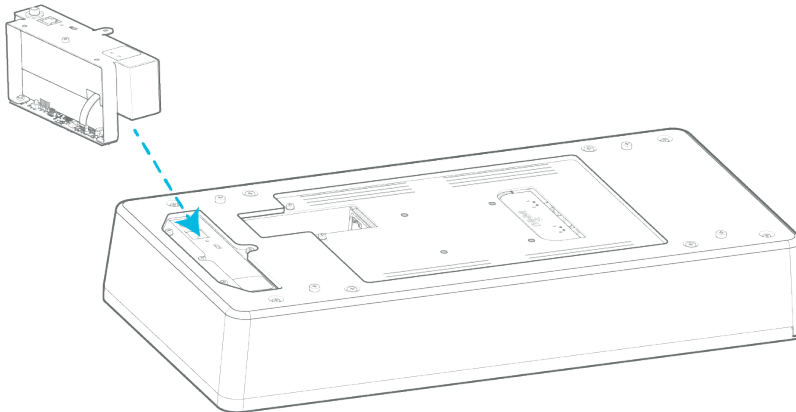
Figure 4: Removing the gateway cover



3. Remove the copper tape from the RFID device and EAS Overhead brackets.
4. Remove the bracket which the copper tape was attached to.

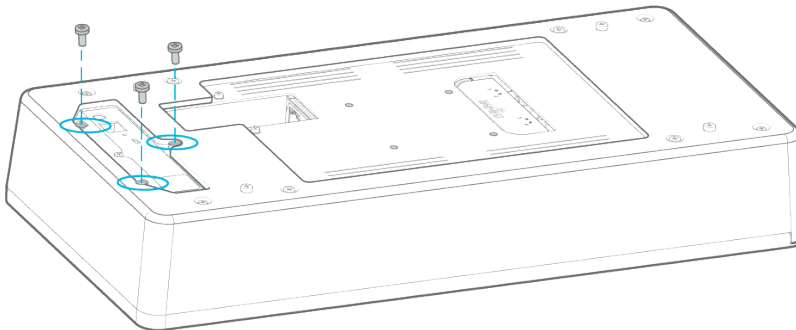
5. Install the Radar.

Figure 5: Placing the Radar Sensor in the EAS Overhead Upgrade



6. Secure the Radar in place, as shown, using three screws from the kit.

Figure 6: Securing the Radar



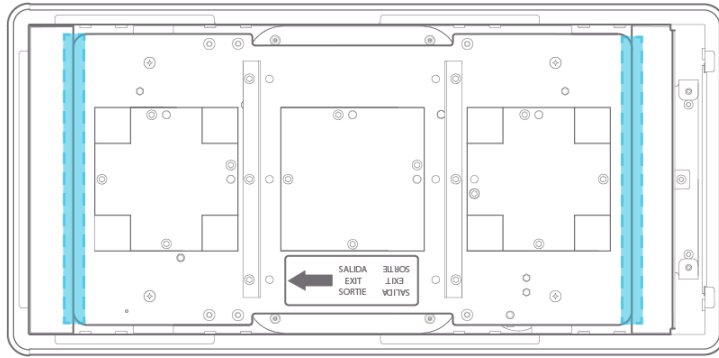
7. Apply copper tape to the EAS Overhead, as described in [Applying the copper tape](#).
8. Re-install the cover to the EAS Overhead by sliding it into position and securing it in place with the two self-tapping screws previously removed. Make sure not to over tighten the screws to prevent the plastic tab it attaches to from stripping out.
9. **Optional:** If you are completing a pole mounted installation, re-install the cosmetic housing.

Applying the copper tape

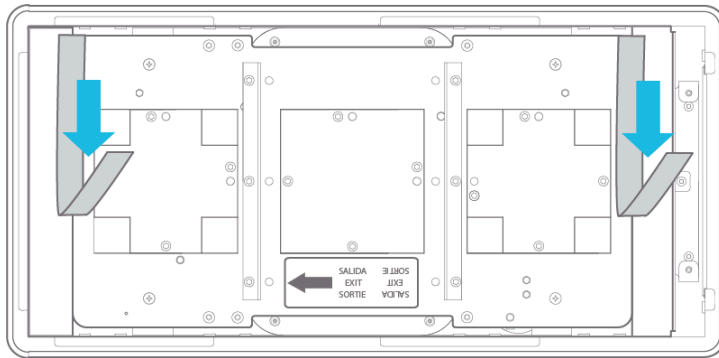
To ensure the operating performance of an EAS Overhead Upgrade apply copper tape, as outlined in the following steps.

⚠ WARNING: Risk of electric shock. Turn off the power to the EAS Overhead Upgrade.

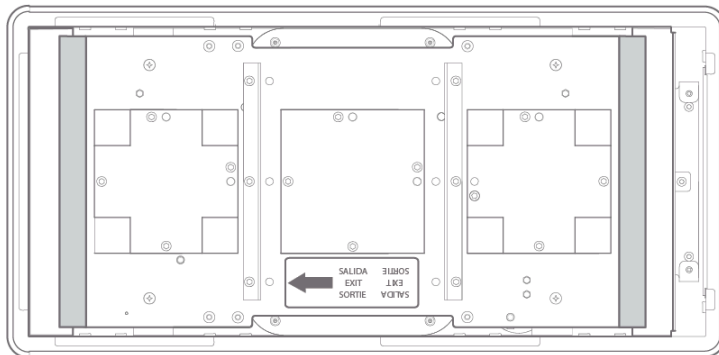
1. Remove any existing tape from the antenna. Use alcohol prep pads to clean the side of the antenna plate and overhead enclosure. Allow the application areas to dry.



2. Remove the adhesive liner from the copper tape and apply the tape to the overhead.



3. **Important:** Ensure that the tape covers any gaps between the antenna plate and the overhead enclosure.



Specifications

Table 2: Input power supply

DC power source	24 VDC
PoE	802.3af PoE

Table 3: Environmental

Operating temperature	0°C to 50°C (32°F to 122°F)
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Mexico, HTS	9029.10.99 nico 99
United States, HTS	9029.10.8000

Declaration

Table 4: Regulatory information

EMC/Radio	47 CFR, Part 15
	FCC 15.255, Radio - low power fixed
	FCC Part 15 Subpart B - General EMC
	EN 301 489-1
	EN 301 489-3
	EN 305 550-1
Safety	UL/CSA/EN 62368-1

Country or Region	Model	Mode
US	GFRADAR2001-FE	FCC Mode
Canada	GFRADAR2001-FE	FCC Mode
EU countries	GFRADAR2001-FE	EU Mode
Mexico	GFRADAR2001-FE	FCC Mode

Regulatory model ID: GFRADAR2001-XX

FCC information

FCC ID: BVC21RDRPC

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation. Please note that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

RF exposure statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, this equipment should be installed and operated with minimum distance 20 cm (7.8 in.) between the antenna and your body during normal operation. Users must follow the specific operating instructions for satisfying RF exposure compliance.

Canada ISED information

ISED ID: 3506A-GFRADAR2001

ISED non-interference disclaimer

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions: (1) This device may not cause interference. (2) This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) L'appareil ne doit pas produire de brouillage; (2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

RSS-Gen Transmit antenna statement

This radio transmitter 3506A- GFRADAR2001 has been approved by Innovation, Science and Economic Development Canada to operate with the antenna types listed below, with the maximum permissible gain indicated. Antenna types not included in this list that have a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device.

Le présent émetteur radio 3506A- GFRADAR2001 a été approuvé par Innovation, Sciences et Développement économique Canada pour fonctionner avec les types d'antenne énumérés ci-dessous et ayant un gain admissible maximal. Les types d'antenne non inclus dans cette liste, et dont le gain est supérieur au gain maximal indiqué pour tout type figurant sur la liste, sont strictement interdits pour l'exploitation de l'émetteur.

Under Innovation, Science and Economic Development regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by ISED. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

Approved antenna types:

- No external antennae are permitted. The device has on board antennae that are embedded in an integrated circuit.

RF exposure statement

This equipment complies with ISED RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm (7.6 in.) between the radiator and any part of your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Pour se conformer aux exigences de conformité ISED RSS-102 RF exposition, une distance de séparation d'au moins 20 cm (7.6 in.) doit être maintenue entre l'antenne de cet appareil et toutes les personnes. Lanceurs ou ne peuvent pas coexister cette antenne ou capteurs avec d'autres.

Other declarations

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