

ZBAMB2070 Mobile Handheld Deactivator

(Motorola MT2070 Handheld Scanner)

Installation Guide

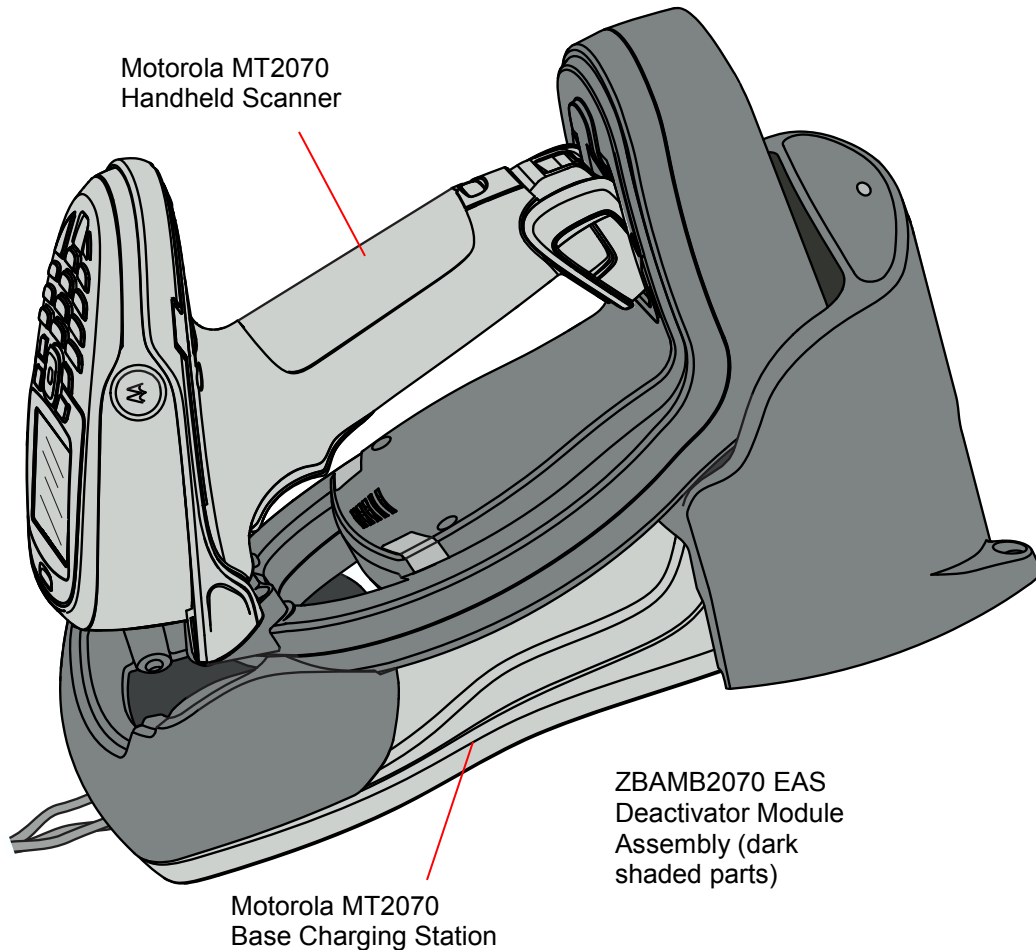
IMPORTANT! Before You Begin!

This device contains many unique parts. Before you go to the installation site, watch the Mobile Handheld Deactivator training video on the LMS site at <https://mytycohr.com>, or on Yammer “Tyco Retail Solutions Global Training Group” at <https://www.yammer.com/tyco.com>.

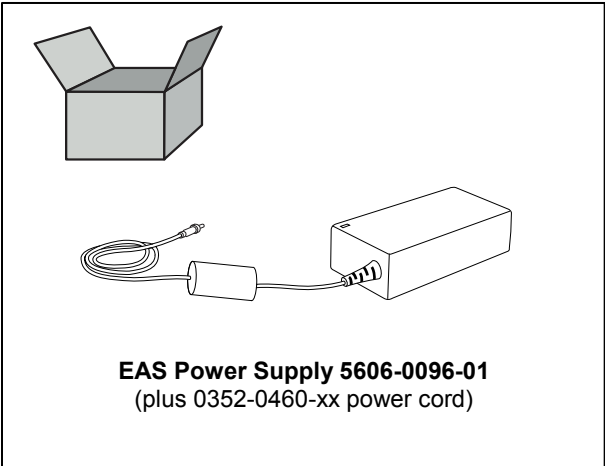
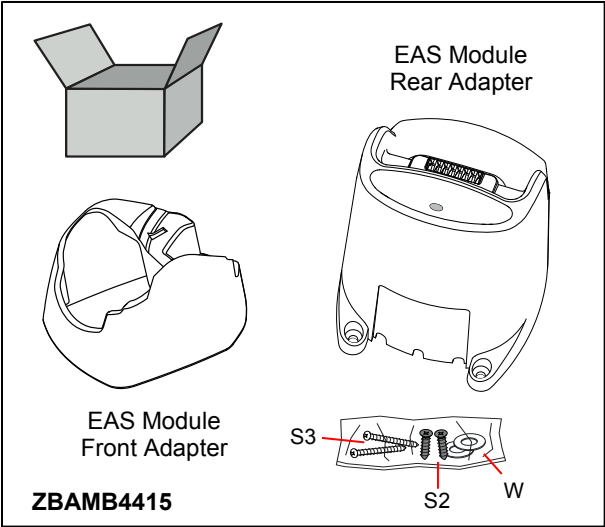
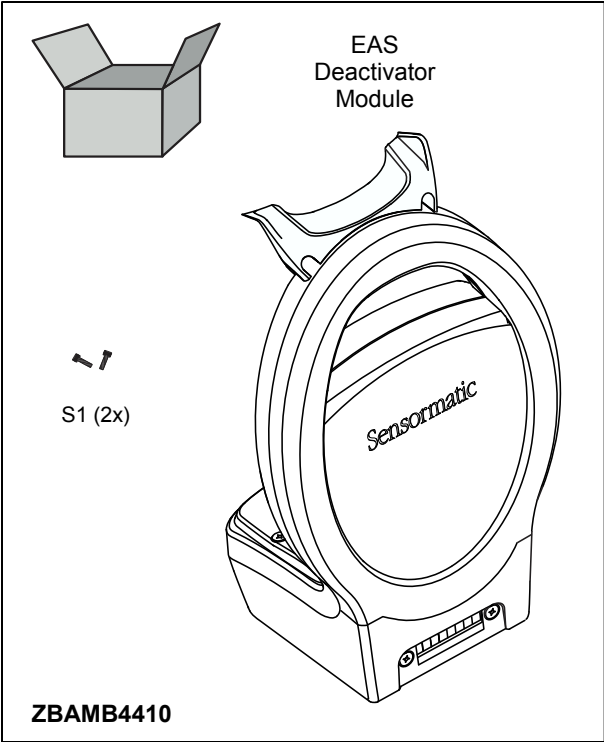
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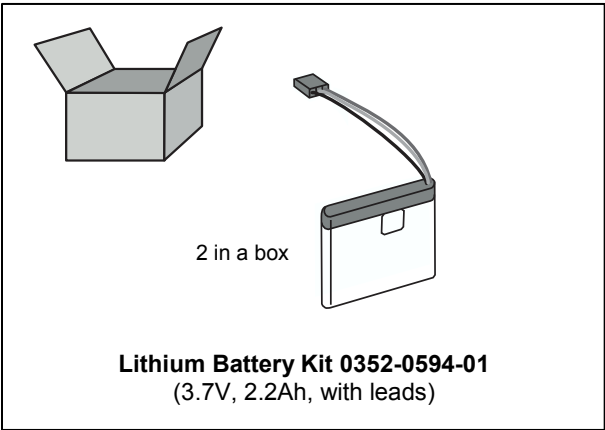
Note: Because customer requirements may dictate the placement of specific components, your Sensormatic representative will supply this information separately.



Required Parts and Tools




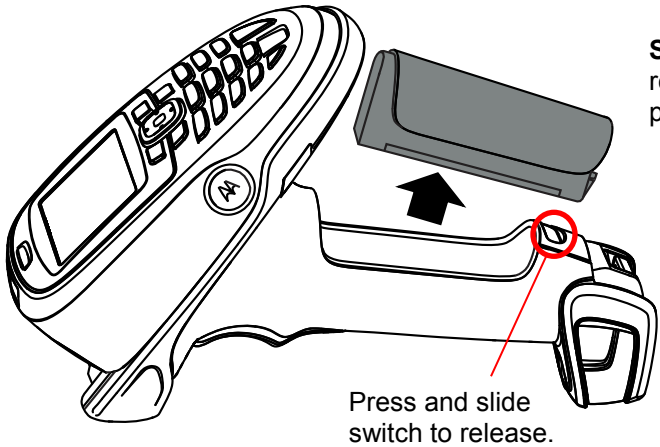
 S1 (2x)	 S3 (2x)
 S2 (2x)	 W (2x)



Installation

Step 1. Prepare the Motorola scanner gun

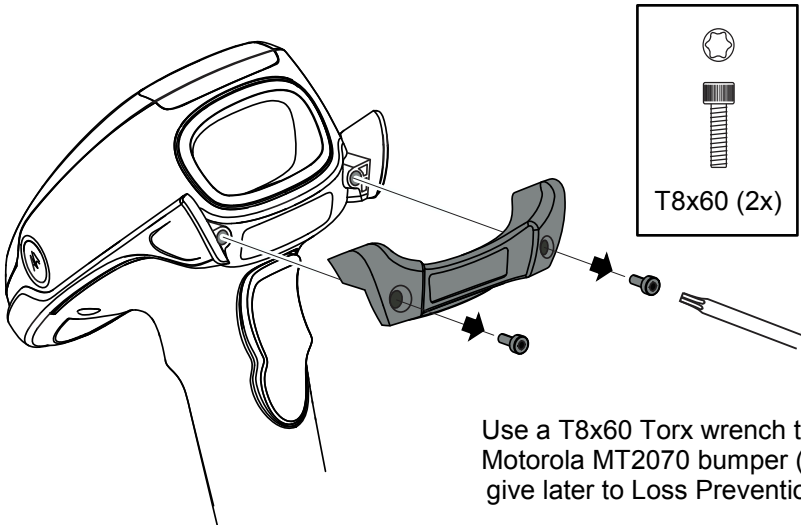
1a  **WARNING:** Remove the battery to prevent accidental exposure to laser radiation during assembly.



Save the battery. You will re-install it at the end of this procedure.

Press and slide switch to release.

1b

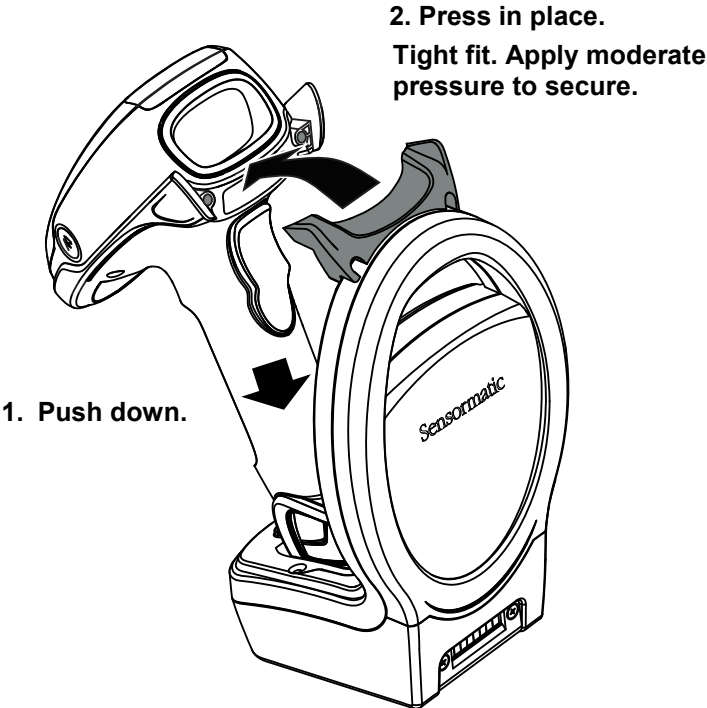


Use a T8x60 Torx wrench to remove the Motorola MT2070 bumper (save parts to give later to Loss Prevention Manager).

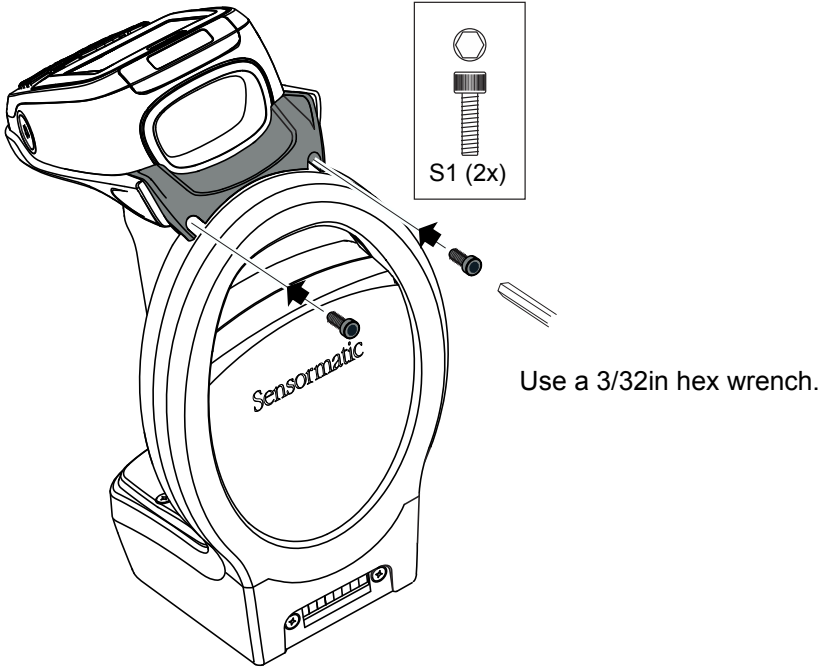
Scanner Gun

Step 2. Attach the scanner gun to the EAS Deactivator Module

2a

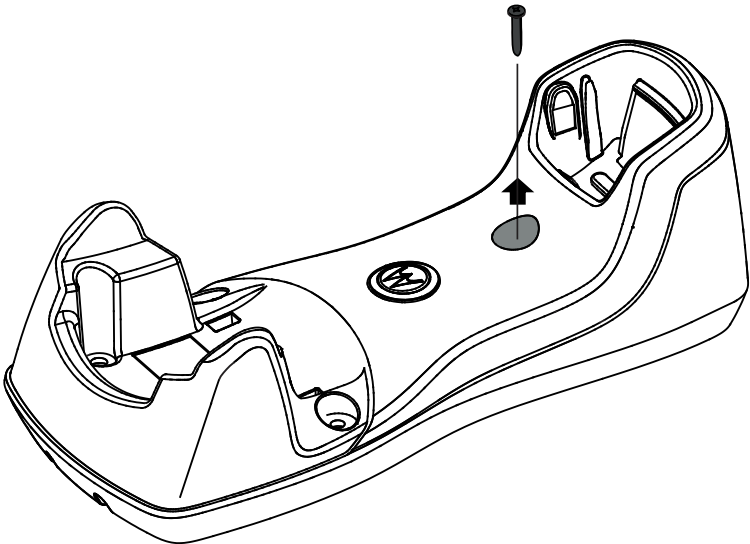


2b



Step 3. Prepare the Motorola Base Charging Station

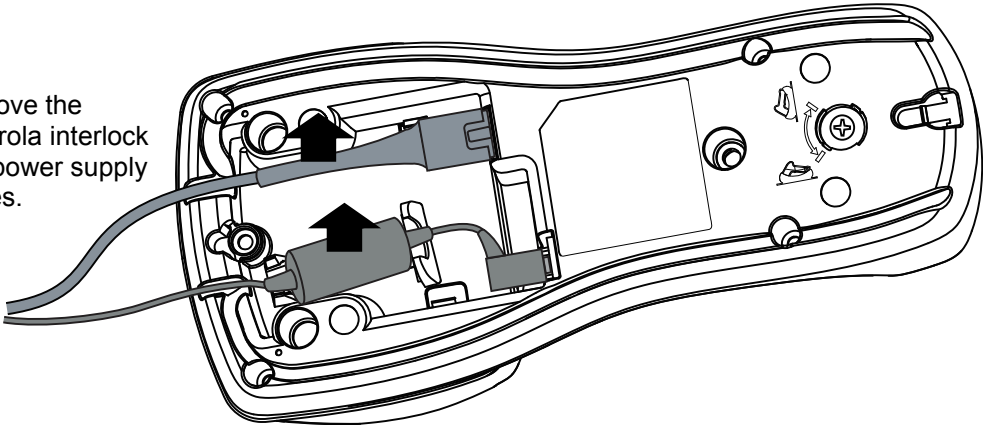
3a



Detach the Motorola Base Charging Station from the counter by removing the center screw and/or Velcro, if any.

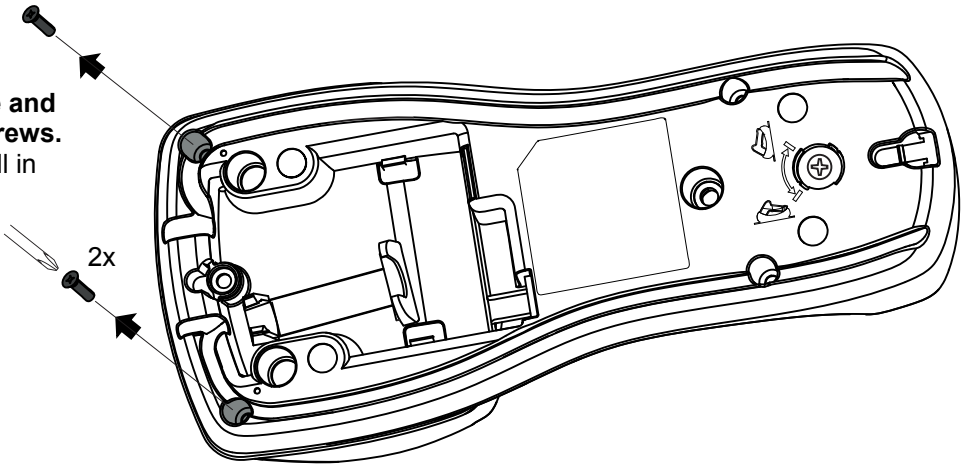
3b

Remove the Motorola interlock and power supply cables.



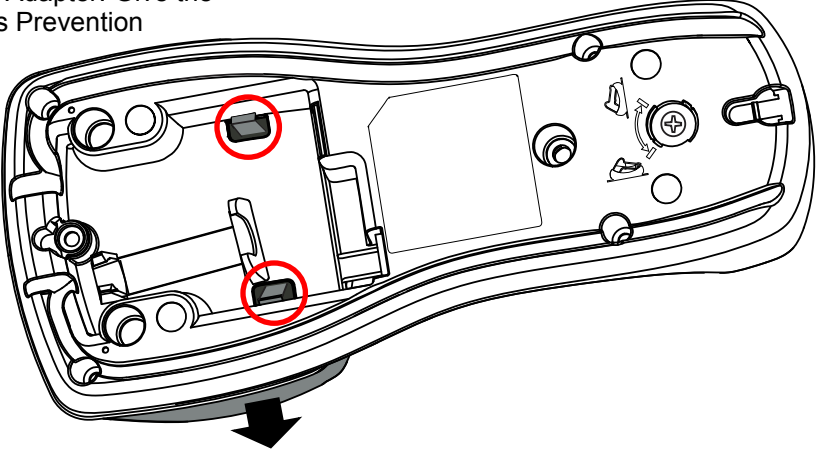
3c

Remove and save screws. Re-install in Step 4c.

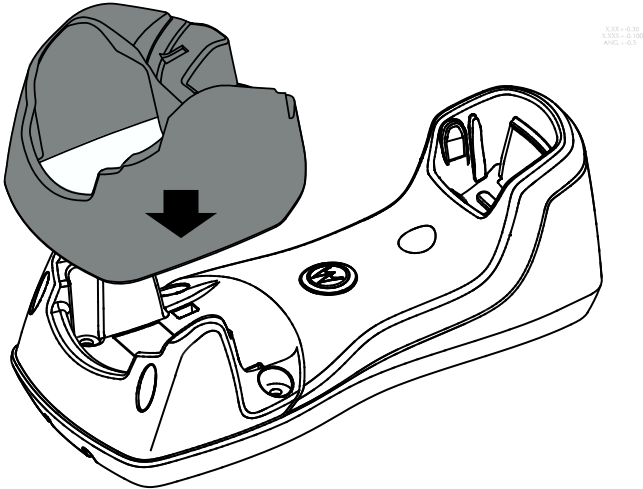


Step 4. Modify the Motorola Base Charging Station (Part 1)

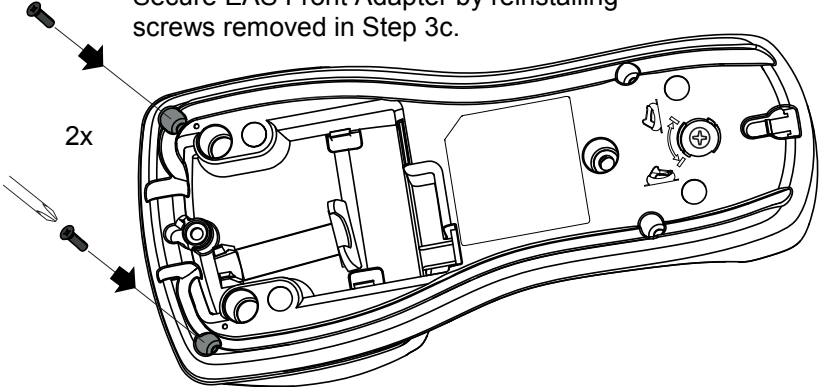
4a Squeeze tabs to detach the Motorola Front Adapter. Give the part to the Loss Prevention Manager.



4b Install the ZBAMB4415 EAS Front Adapter.

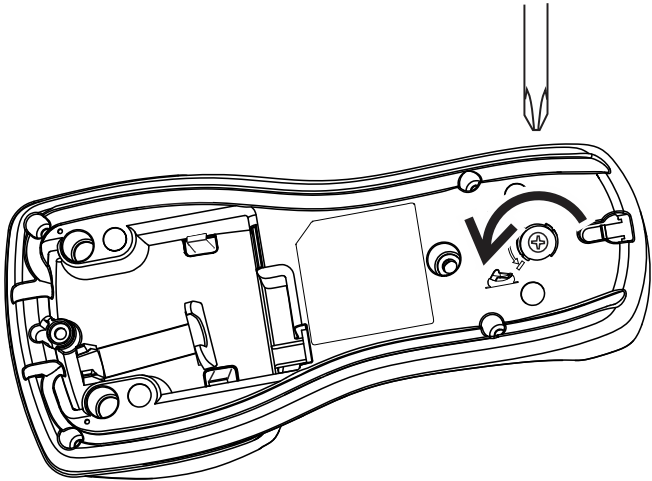


4c Secure EAS Front Adapter by reinstalling screws removed in Step 3c.



Step 5. Modify the Motorola Base Charging Station (Part 2)

5a

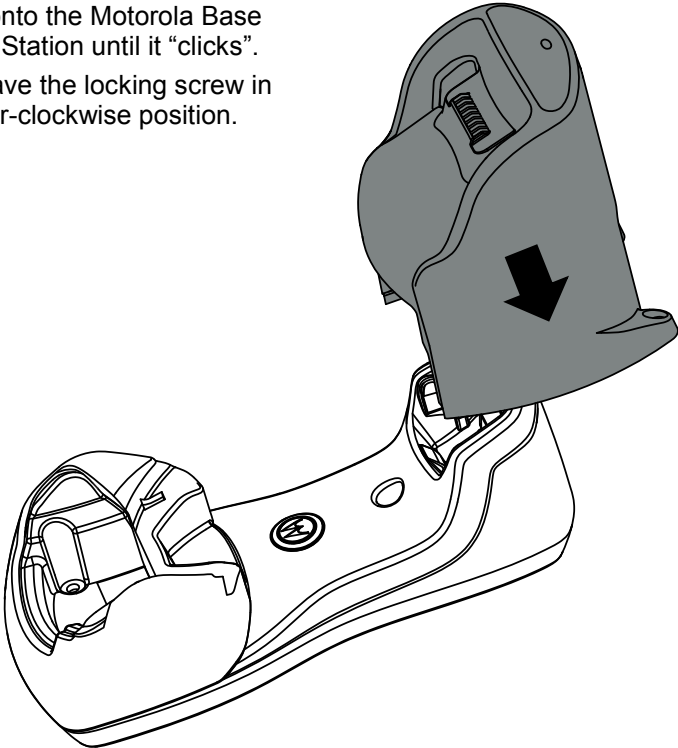


Turn the locking screw counter-clockwise.

5b

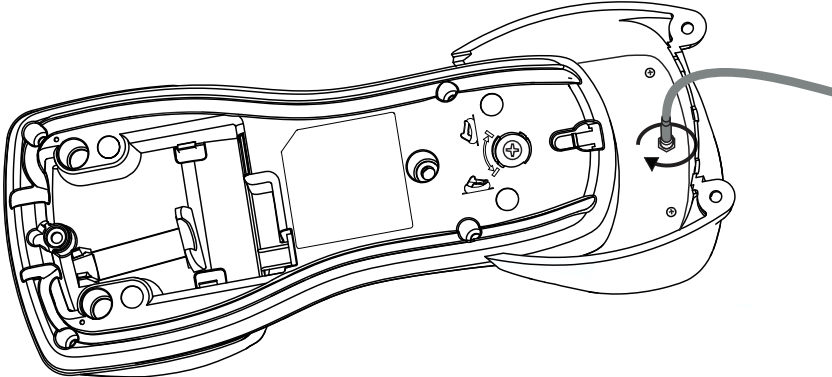
Press the ZBAMB4415 EAS Rear Adapter onto the Motorola Base Charging Station until it “clicks”.

Note: Leave the locking screw in its counter-clockwise position.

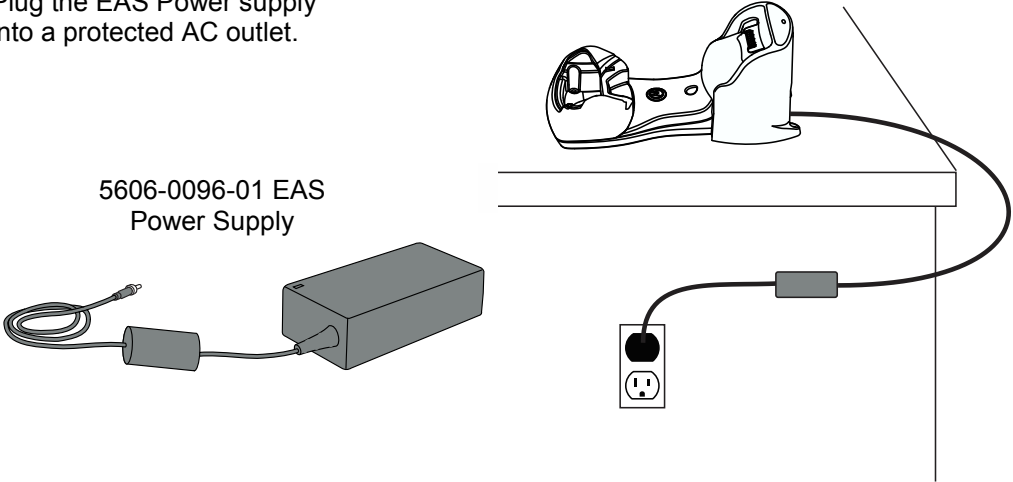


Modify the Motorola Base Charging Station (Part 2), continued

5c Thread the EAS power supply cable into the bottom of the EAS Rear Adapter.

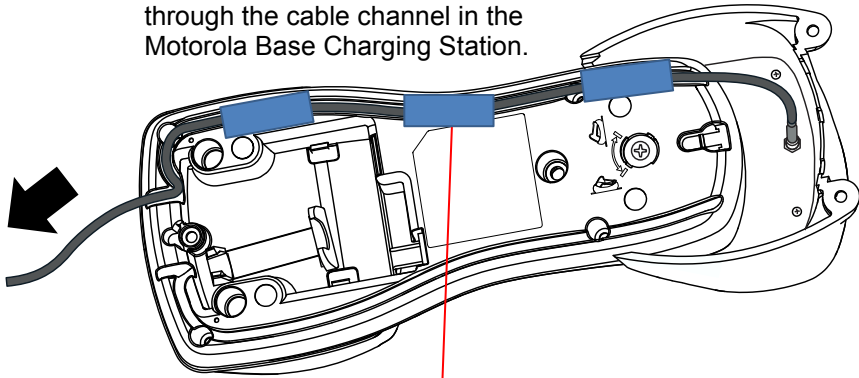


5d Plug the EAS Power supply into a protected AC outlet.



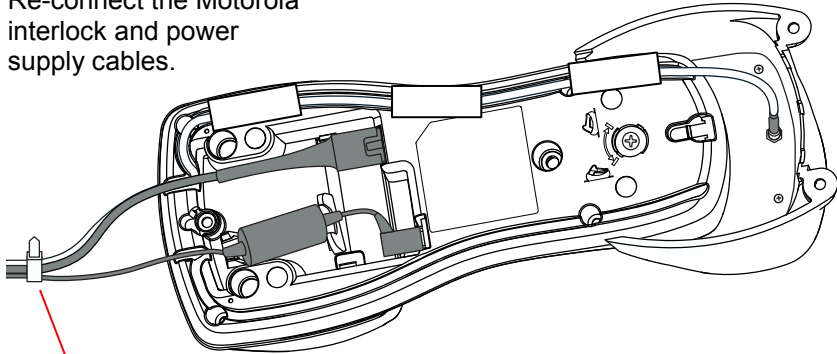
Step 6. Modify the Motorola Base Charging Station (Part 3)

6a Route the EAS power supply cable through the cable channel in the Motorola Base Charging Station.



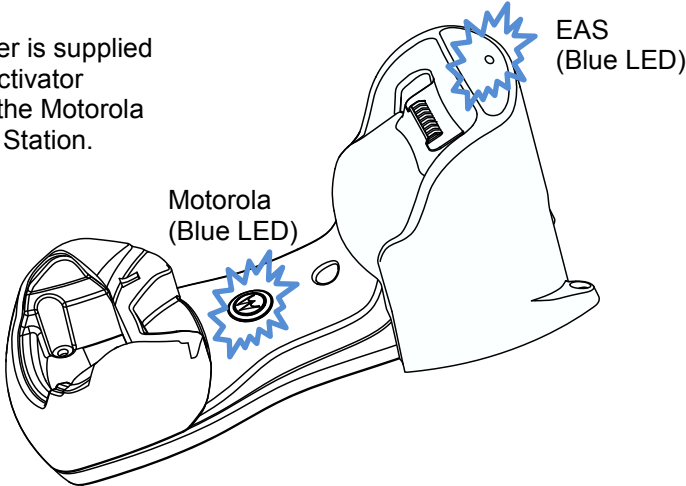
Tape cables in place where shown.

6b Re-connect the Motorola interlock and power supply cables.



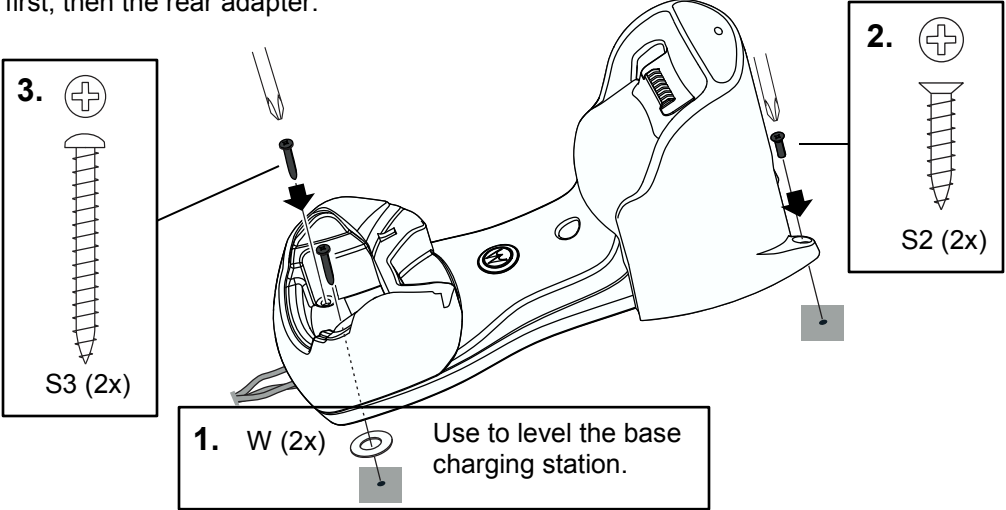
Tie wrap cables

6c Verify that power is supplied to both the deactivator module and to the Motorola Base Charging Station.



Step 7. Secure the Motorola Base Charging Station

In the order shown, secure the Base Charging Station at the customer's preferred location (see example below). Secure the front adapter first, then the rear adapter.



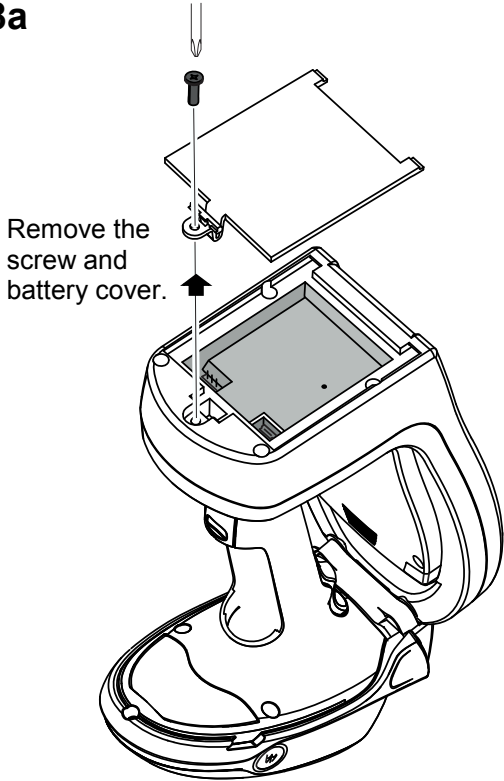
Example of Mounting Location



A mounting plate may be required if the mounting surface is uneven. Order Mounting Plate Kit 0352-0588-01.

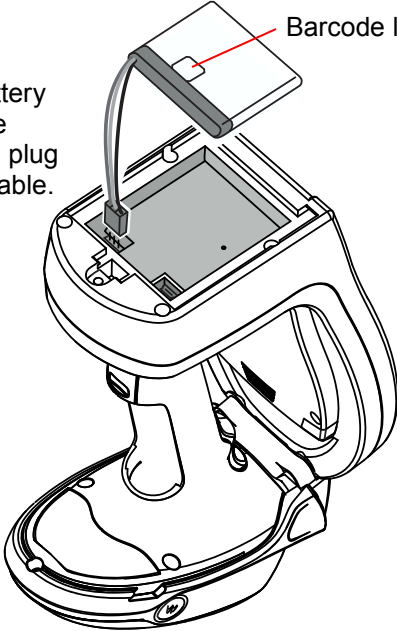
Step 8. Install the EAS battery

8a



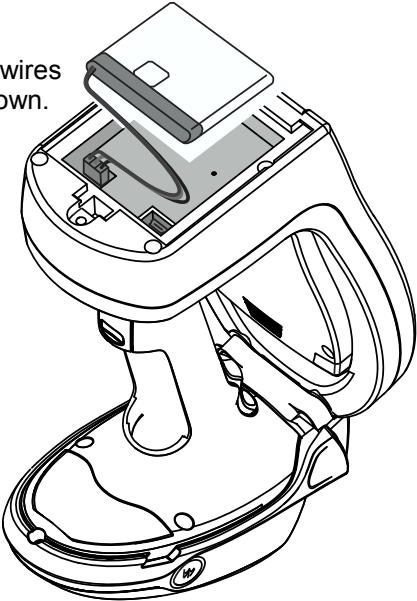
8b

Holding the battery with its barcode label facing up, plug in the battery cable.



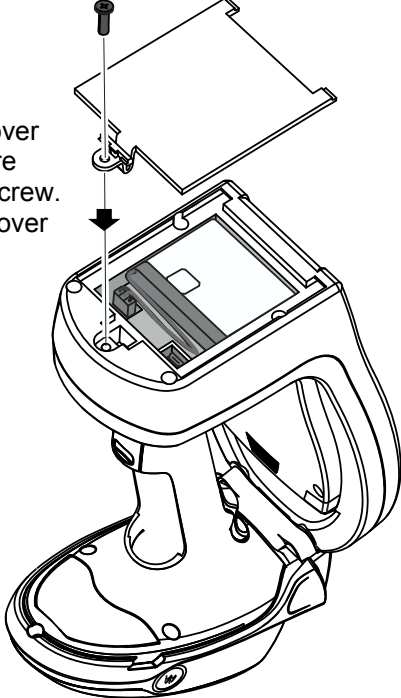
8c

Bend wires as shown.

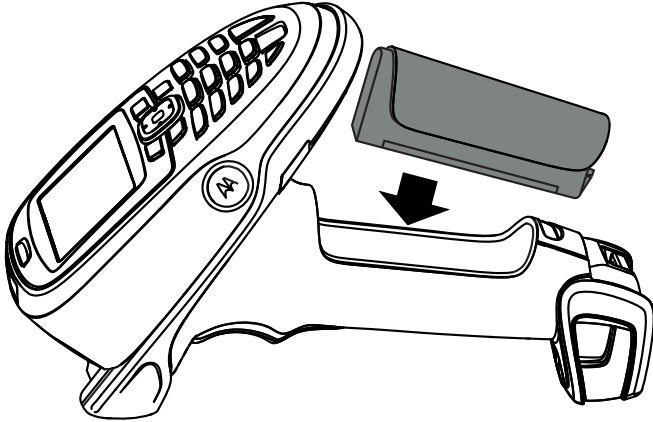


8d

Install the battery cover and secure with the screw. DO NOT over tighten.



Step 9. Re-install the battery into the Motorola scanner gun

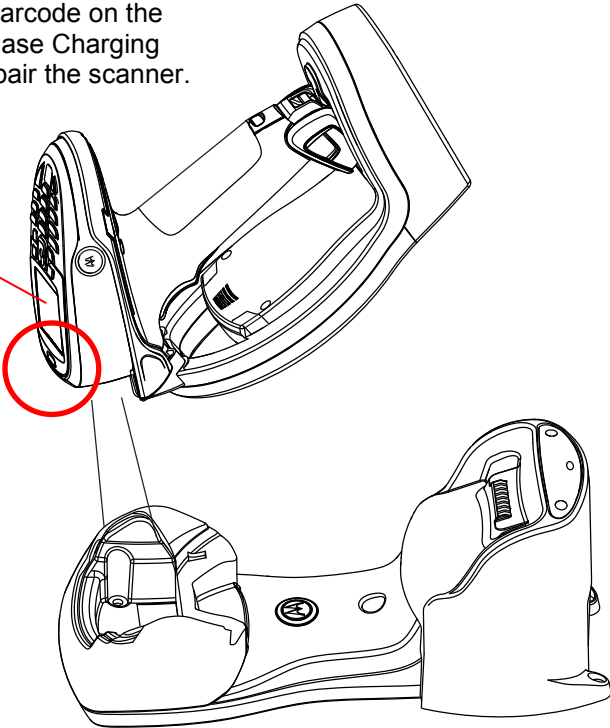


Step 10. Pair the scanner gun to the Base Charging Station

Scan the barcode on the Motorola Base Charging Station to pair the scanner.

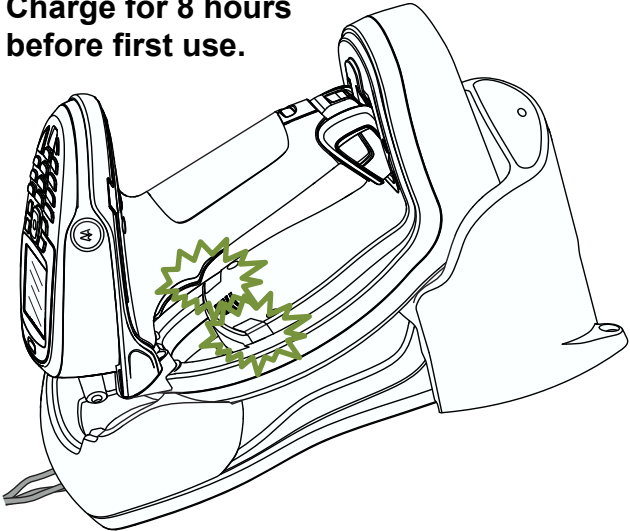
Look for lightning bolt symbol on the LCD.

LED/Audio sequence:
Red > Beep > Green.



Step 11. Charge the battery in the EAS Deactivator Module

Charge for 8 hours before first use.



Deactivator Charging Indications

LEDs	Indicates
Flashing green	Charging
Solid green	Fully charged
Off	Module not in base and sync'd with AP

Troubleshooting

ZBAMB4410 Deactivator

LEDs / Audio	Indicates
Fast flashing red	Replace battery
Slow flashing red + beep	Module is out of range of wireless AP
Solid red	Replace module

Motorola Base Charging Station

LED	Indicates
Dim Blue	No communication
Off	No power

MT2070 Scanner

LCD	Indicates
Lightning bolt	Charging
No lightning bolt	No power

Maintain the Product

Field Replaceable Parts

A complete parts list is available online at:
<http://www.sensormatic.com/support/techsupport/>.
Login, then click the Part Information link on the
Tech Support home page.

Part	Number
ZBAMB4410	EAS Deactivator Module
ZBAMB4415	EAS Module Rear Adapter
5606-0096-01	Power Supply, EAS Module Rear Adapter
0352-0460-xx	Power Cord, Power Supply, EAS Module Rear Adapter

Specifications

Electrical

AC input..... 100–240V @ 47-63Hz
DC Input 12Vdc @ 2.5A

Deactivator Charging Station

DC input..... 12Vdc @ 2.5A
Communications..... Pass-thru data
Power on indicator..... Blue LED

Mobile Handheld Deactivator

Deactivation range..... 11.4–15.2cm (4.5–6in)

Communications

Power on indicator..... Blue LED
Display..... Scanner has LCD
Data communication:
Wireless802.15.4
Data rate 250Kbps
Frequency range..... 2.4GHz ISM band,
2405MHz–2480MHz
Output power.....5mW, +7dBm Max. (boost mode)
Spreading technique.....Direct Sequence Spread
Spectrum (DSSS)
EAS synchronization..... Wireless EAS
Sync-AP transceiver

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada.

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.

Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada.

Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.

Antenna: 2.4GHz Internal (inverted F type PCB trace)

Battery

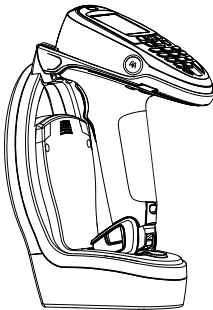
Battery type..... Rechargeable lithium ion polymer
2200 mAh (max. 4.3V, nominal 3.7V)
Operating temperature 32 to 122°F (0 to 50°C)
Storage temperature -40 to 158°F (-40 to 70°C)
Charging temp. 32 to 104°F (0 to 40°C) nominal
41 to 95°F (5 to 35°C) ideal

Environmental

Operating, storage, and charging temperature See "Battery"
Relative humidity.....0 to 85% non-condensing

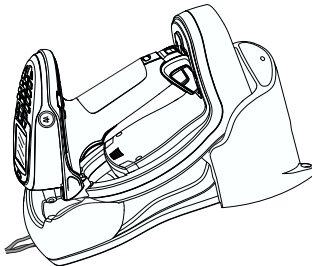
Mechanical

Scanner/Deactivator only (standing):



Length 14.9cm (5.88in)
Width..... 11.4cm (4.5in)
Height..... 22.9cm (9in)
Weight..... 0.9kg (1.93 lbs)

Scanner/Deactivator sitting in Base Charging Station:



Length 27.3cm (10.75in)
Width..... 11.4cm (4.5in)
Height..... 20.3cm (8in)

Declarations

Regulatory Information

FCC ID: BVCAMB44

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: reorient or relocate the receiving antenna, increase the separation between the equipment and receiver, connect the equipment into an outlet on a circuit different from that to which the receiver is connected, and/or consult the dealer or an experienced radio/TV technician for help.

IC ID: 3506A-AMB44

MODELS: ZBAMB2070

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie 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, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

EMC.....47 CFR, Part 15
ICES-003
RSS-Gen
RSS-210

Safety UL 60950-1 (second edition)
CSA C22.2.60950-1
EN 60950-1

Environmental rating..... IP54

EQUIPMENT MODIFICATION CAUTION: Equipment changes or modifications not expressly approved by Sensormatic Electronics, LLC, the party responsible for FCC compliance, could void the user's authority to operate the equipment and could create a hazardous condition.

Other Declarations

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