

3M™ One-Piece GPS (TD4i) Offender Tracking System and Curfew Unit

Installation & Operation

April 2017

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Versions and Changes Table

Version	Status/Changes	Author	Date
1.0	Initial release version	Steve Graniewitz	03-APR-2017



Safety Information

Please read, understand, and follow all safety information contained in these instructions prior to the use of this 3M Electronic Monitoring device. Retain these instructions for future reference.

Intended Use


This 3M Electronic Monitoring device is part of an electronic monitoring system, which performs data transfer using cellular network to a monitoring platform. This device has not been tested for and is not intended for use on airplanes, in hazardous environments, in healthcare facilities, or where cellular phones or other intentional transmitters are restricted.

The operating temperature of the One-Piece GPS Tracking Unit (TD4i) is -20°C to +55°C. The operating temperature of the Curfew Unit is -25°C to +55°C. The storage temperature of the One-Piece GPS Tracking Unit (TD4i) is -40°C to +60°C. The storage temperature of the Curfew Unit is -25°C to +55°C.

Explanation of Signal Word Consequences	
 WARNING	Indicates a hazardous situation which, if not avoided, could result in serious injury or death.
 CAUTION	Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury and/or property damage.
NOTICE:	Indicates a situation which, if not avoided, could result in property damage.

Safety information for:

- Rechargeable hand-held/wearable devices
- Non-rechargeable hand-held/wearable devices
- Cradles/receivers/base units

 WARNING	<p>Avoid placing a device next to an implanted electronic device (e.g., don't carry the device in a shirt or jacket pocket directly near an implanted device).</p> <p>To reduce the risks associated with fire or explosion:</p> <ul style="list-style-type: none"> • Do not intentionally open or damage the device. • Do not attempt to access or replace battery. Battery is not user-replaceable. The device shall be opened by 3M authorized service only. • Ensure storage temperature of device is within the range as specified in device manual. • Do not use device outside of the operation temperature range specified in device manual. Contact the agency representative from which you are monitored to get operation temperature range.
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**WARNING**

To reduce the risks associated with hazardous voltage:

- Do not modify, decorate, or attempt to service the device. Return to 3M authorized personnel or location for repair or service. There are no user serviceable parts.
- If the device or power cord becomes damaged, contact the agency representative from which you are monitored.

NOTICE

- Only authorized personnel can turn off or remove the device.

Safety information for:

- Rechargeable hand-held/wearable devices
- Cradles/receivers/base units

**WARNING**

To reduce the risks associated with hazardous voltage:

- Do not modify AC/DC power adapter plug.
- Do not force the power plug into an outlet where it does not fit.
- Use only a 3M provided AC/DC power adapter to recharge or power the device.
- Do not unplug AC/DC adapter by power cord. Handle the adapter by the body only.
- Do not attempt to charge the device using an outdoor outlet. Only use the AC/DC adapter indoors.
- Do not expose power adapter to rain, steam or wet conditions.
- Do not submerge the device, or hold the device under running water, while it is charging.

**CAUTION**

To reduce the risks associated with hot surfaces:

- Do not touch thermal pads on device or charger if charging is interrupted.

Safety information only for:

- Rechargeable Hand-held/wearable Devices
- Non Rechargeable Hand-held/wearable Devices



WARNING

To reduce the risks associated with fire or explosion:

- Do not enter areas with potentially explosive atmosphere. Potentially explosive areas are often, but not always, clearly marked.



CAUTION

To reduce the risks associated with sharp points:

- Use caution when handling pin trays.



CAUTION

- Avoid installing the electronic monitoring device in the presence of ulcers, open wounds, blisters, swelling or skin infection over the expected area of contact with the electronic monitoring device.
- If the user reports pain, numbness or other symptom over the expected area of contact with the electronic monitoring device, a medical opinion is recommended prior to installation.
- If the user reports concerns about an underlying medical condition that could be exacerbated by use of the electronic monitoring device, a medical opinion is recommended prior to installation of device.
- If, during use, the user experiences skin changes or symptoms in the area in contact with the electronic monitoring device, the user should immediately contact their agency representative.

Cancer Patients that have been treated with Radiotherapy:

- Avoid installing the electronic monitoring device in the presence of radiation-induced skin changes (such as ulcers, open wounds, blisters, desquamation, erythema, hyperpigmentation) over the expected area of contact with the electronic monitoring device. Otherwise, there is no currently available evidence the use of the electronic monitoring device is contraindicated in cancer patients that have been treated with Radiotherapy.

Pregnant women:

- Avoid installing the electronic monitoring device in the presence of ulcers, open wounds, blisters, swelling or skin infection over the expected area of contact with the electronic monitoring device. Otherwise, there is no currently available evidence the use of the electronic monitoring device is contraindicated in pregnant women.

Safety information only for:

- Cradles/receivers/base Units



WARNING

To reduce the risks associated with hazardous voltage:

- Do not submerge the device, or hold the device under running water.

FCC

FCC ID: LSQ-TD4i-433

FCC ID: LSQ-IDEU-830-2

FEDERAL COMMUNICATIONS COMMISSION (FCC) Part 15 STATEMENT

The equipment 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.

This device complies with FCC/ISED radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines and RSS-102 of the ISED radio frequency (RF) Exposure rules. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

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:

1. Reorient or relocate the receiving antenna,
2. Increase the separation between the equipment and the receiver,
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected,
4. Consult the dealer or an experienced radio/TV technician for help.

3M Electronic Monitoring has not approved any changes or modifications to this device by the user. Any changes or modifications could void the user's authority to operate the equipment.

WEEE



This symbol according to the European Directive indicates that the Waste of Electrical and Electronic Equipment (WEEE) must not be disposed of as unsorted municipal waste and must be collected separately. Please contact an authorized representative of the manufacturer or an authorized waste management company for information concerning the decommissioning of your equipment.

Table of Contents

1	Introduction.....	9
2	Main Components	10
2.1	LED Indicators.....	10
2.1.1	<i>PWR LED</i>	11
2.1.2	<i>GPS LED</i>	11
2.1.3	<i>Zone LED</i>	12
2.1.4	<i>LED Indication During Activation Sequence</i>	12
2.1.5	<i>LED Indication of Vibrate Now Feature</i>	13
3	Charging the Unit.....	14
3.1	Cord Charger Attachment.....	14
3.2	Cordless Charger	14
4	Installing the One-Piece GPS Unit	16
4.1	Before Installation	16
4.1.1	<i>Installation Equipment</i>	16
4.1.2	<i>Installation Tools</i>	16
4.1.3	<i>Offender Information in the 3M™ Offender Management Software</i>	17
4.2	Setting Up the 3M™ Curfew Unit.....	17
4.2.1	<i>Curfew Unit LED Indication</i>	18
4.3	Checking the One-Piece GPS Unit’s Battery Status	19
4.4	Attaching the Tamper Plugs.....	19
4.5	Preparing the Strap.....	20
4.6	Attaching the One-Piece GPS Unit to the Offender’s Ankle	22
4.7	Activating the One-Piece GPS Unit	23
5	Status Alerts	24
5.1	Low Battery	24
5.2	Motion No GPS.....	24
5.3	Strap Tamper	24
5.4	Case Tamper	24
5.5	Geographic Zone Alerts.....	24
5.6	Curfew Zone Alert	25
5.7	Curfew Unit Tamper	25
6	Dismantling the One-Piece GPS Unit	26
6.1	Before Dismantling.....	26
6.2	Performing an End of Service	26
6.3	Removing the One-Piece GPS Unit.....	26
6.4	Removing the Curfew Unit	28

1 Introduction

The 3M™ One-Piece GPS Offender Tracking Unit is a wearable device designed specifically for offender monitoring applications. With security redundancies and anti-tamper mechanisms built-in across the platform, the One-Piece unit provides a trustworthy and reliable tracking system.

The system integrates tracking, communication, and mapping technologies that enable operators to efficiently track offenders at varying levels of intensity.

Each monitored offender is assigned a tracking unit which continuously tracks their location in real-time. The One-Piece unit stores and processes the tracking data and communicates with the monitoring center or assigned officers to report the offender's location or alert in the event of a violation. Alerts are configured according to the offender's individual schedule and zone restrictions.

The One-Piece unit operates on the 3M Electronic Monitoring software platform and is a result of over a decade of field experience.

2 Main Components

The One-Piece unit features the following main components:



Figure 1: One-Piece GPS Unit Main Components

2.1 LED Indicators

The One-Piece unit features three LED indicators that inform the offender of the unit's status. If vibration notification is enabled, the One-Piece unit vibrates in order to prompt the offender to check the status of the LEDs.

The three LED indicators are labeled as follows:

- PWR
- GPS
- Zone

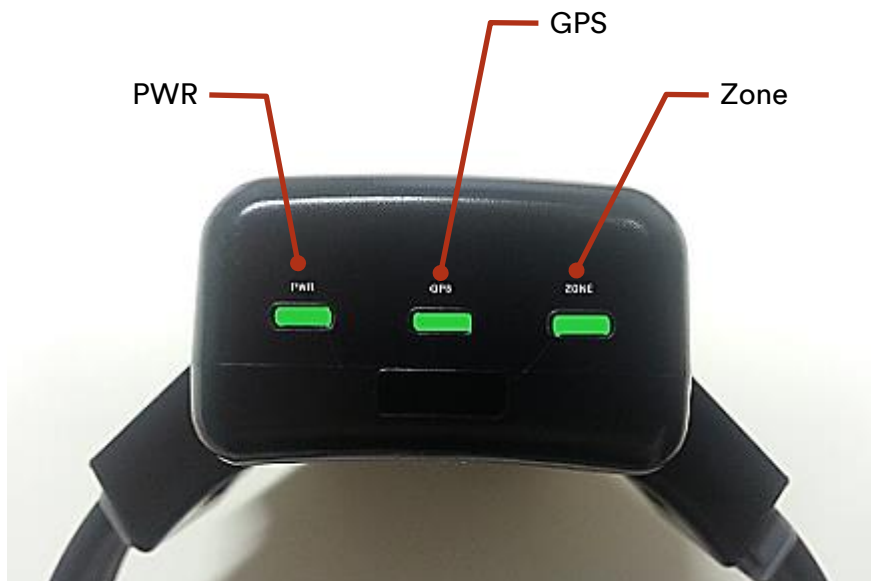












Figure 2: One-Piece GPS Unit LED Indicators

The following three sections explain the One-Piece unit's LED indication during regular operation. Additional status conditions indicated by a combination of LEDs are explained in section 2.1.4 LED Indication During Activation Sequence and section 2.1.5 LED Indication of Vibrate Now Feature.





2.1.1 PWR LED

The PWR LED indicates the status of the One-Piece unit's battery as explained in the following table.

LED Indication	LED Pattern	Status Description
	 Flashing green (once per second)	The One-Piece unit is activated or is in the process of being activated, and the battery does not need to be charged.
	 Flashing red (once per second)	The One-Piece unit is activated and the battery needs to be charged.
	 Solid green	The One-Piece unit is connected to the charger and the battery has been completely recharged. You may remove the One-Piece GPS unit from the charger.
	 Solid red	The One-Piece unit is connected to the charger and is not yet fully charged.
	 LED off	The One-Piece unit is not active or has shut down due to low battery.





2.1.2 GPS LED

The GPS LED indicates the conditions listed in the following table.

LED Indication	LED Pattern	Status Description
	 LED off	During regular operation, the GPS LED is off. There is no indication to the offender if the device has a GPS fix or not.
	 Flashing red (once per second)	The One-Piece unit has accumulated 10 minutes of offender motion in a 60-minute period without receiving a signal from the GPS satellites.







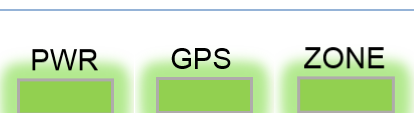

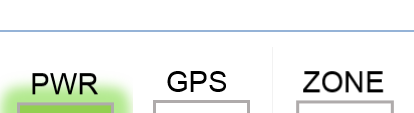
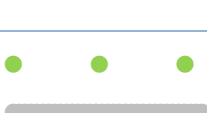
2.1.3 Zone LED

The Zone LED indicates geographic zone violation status.

LED Indication	LED Pattern	Status Description
	 LED off	The Offender is not violating any zone restrictions.
	 Flashing red (once per second)	The Offender has violated one or more zone restrictions – see 5.5 <i>Geographic Zone Alerts</i>



2.1.4 LED Indication During Activation Sequence

The One-Piece unit uses all three LEDs in combination to indicate each stage of the activation sequence. These indications are explained in the following table.

LED Indication	LED Pattern	Status Description
		PWR LED flashes red not in sequence with the other LEDs flashing green The activation sequence has begun.
		All three LEDs flash green once per second The data transfer sequence has begun
		All three LEDs flash green. GPS and Zone flash twice per second. PWR LED is not in sequence. The One-Piece unit has completed the data transfer sequence and is searching for a GPS signal.
		All three LEDs flash green three times per second GPS signal has been received, the One-Piece unit is searching for its Curfew Unit.
		The PWR LED flashes green once per second and the other two LEDs stop flashing The One-Piece unit has been activated successfully.

2.1.5 LED Indication of Vibrate Now Feature

The Vibrate Now feature enables the monitoring center to send a command to the One-Piece unit that causes the unit to vibrate and flash all three LED so that the offender will call the monitoring center.

LED Indication	LED Pattern	Status Description
	 <p data-bbox="868 450 1082 533">All three LEDs flash red once per second</p>	<p data-bbox="1115 405 1433 577">The One-Piece has received a Vibrate Now command. Press the Activation button to acknowledge.</p>

3 Charging the Unit

The One-Piece unit can be charged in two different ways; the Cord Charger attachment and the Cordless Charger. Both charging options can fully charge a depleted battery in 2.5 to 3 hours.

3.1 Cord Charger Attachment

The first method of charging is via the regular cord charger attachment that is supplied in the product kit.



Figure 3: One-Piece GPS Unit with Wall Mount Power Supply and Cord Charger Attachment

The Cord Charger attachment is connected to a wall mount power supply at one end and to the One-Piece unit's charging port at the other.

The Cord Charger is attached to the One-Piece unit using two magnets allowing quick and easy attachment and removal. This method helps to prevent any damage to the device or the wearer in the event of unintended pulling.

3.2 Cordless Charger

The Cordless Charger is a dedicated attachment including a rechargeable battery that fits to the bottom of the One-Piece unit. The Cordless Charger connects to a wall mount power supply that recharges its battery when not in use.



Figure 4: Cordless Charger with Wall Mount Power Supply

When attached to the One-Piece unit, the cordless charger charges the device while allowing the offender to go about their daily routine unhindered.



Figure 5: One-Piece GPS Unit with Cordless Charger Attached

4 Installing the One-Piece GPS Unit

Installing the One-Piece GPS Unit involves:

- Assembling the appropriate equipment
- Verifying that the Offender is registered in the 3M™ Offender Management Software
- Activating the unit

4.1 Before Installation

Before leaving the monitoring center, check that you have the correct installation kit and the appropriate installation tools. In addition, verify that the Offender is correctly registered in the 3M™ Offender Management Software application.

4.1.1 Installation Equipment

The kit of installation equipment should include the following items:

- One-Piece GPS unit
- Power adapter
- Curfew Unit
- 1 strap
- 2 tamper plugs
- 2 pin trays

4.1.2 Installation Tools

You will also need the following installation tools:

- Strap installation tool – for measuring and cutting the strap
- Flat head screwdriver – for removing tamper plugs

- i** The One-Piece GPS unit's battery must be fully charged.
- Press and hold the Activation button for one second to check the battery's status – see *Figure 1: One-Piece GPS Unit Main Components*.
- If the PWR LED flashes green, the battery is fully charged.
 - If the PWR LED flashes red, the battery is not fully charged and must be charged for at least 60 minutes.

4.1.3 Offender Information in the 3M™ Offender Management Software

Verify the following Offender details in the 3M™ Offender Management Software application:

- Offender's name and address
- Offender's program type – 1 Piece
- Equipment serial numbers –these must match the serial numbers on the equipment you are planning to install
- SIM card details

For more information about working with the 3M™ Offender Management Software, refer to the One-Piece GPS Offender Tracking Operational Guide.

4.2 Setting Up the 3M™ Curfew Unit

The Curfew Unit is an RF device that monitors the offender's presence in a fixed curfew area.



Figure 6: 3M™ Curfew Unit

The ideal location for the Curfew Unit is:

- As close as possible to the center of the curfew site
- On a flat and secure surface
- 1m above the ground and at least 30cm away from the wall
- Not close to the ceiling

Make sure the Curfew Unit is located far away from:

- Television sets or other electrical appliances
- Microwave ovens
- Personal computers or laptops
- Heat sources such as a radiator, air duct, or direct sunlight
- Excessive moisture or extremely low temperatures
- Mirrors or reflective materials

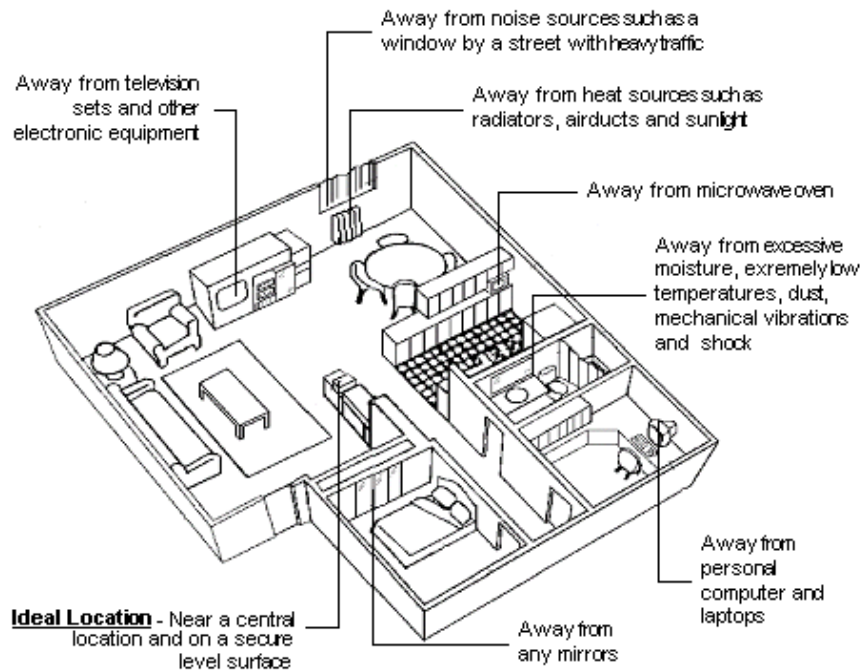


Figure 7: Positioning the Curfew Unit

- ⓘ If the house has two floors, it is recommended that you install the Curfew Unit on the first floor. If the house has three floors, it is recommended that you install the Curfew Unit on the middle floor.

To install the Curfew Unit:

1. Place the Curfew unit in position according to the recommendations above.
2. Connect the Curfew unit to power.

- ⓘ The Curfew Unit includes a rechargeable battery that enables the unit to continue functioning in the event of a power outage. This battery is recharged automatically and recharging is not controlled by the user.

4.2.1 Curfew Unit LED Indication

The Curfew Unit has four LEDs that provide status indication

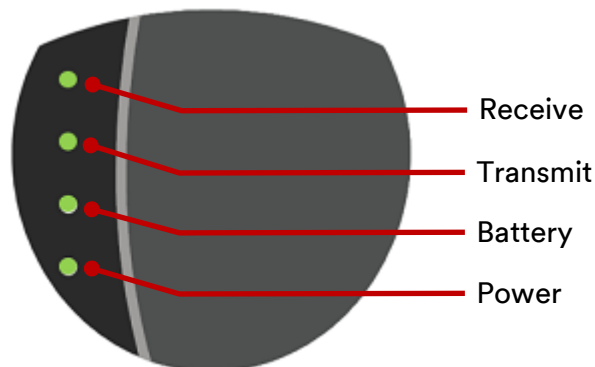


Figure 8: Curfew Unit LED Indication

The following table explains the role of each of the Curfew Units LED indicators.

LED	Description
Receive	Flickers when a transmission is received by the Curfew Unit.
Transmit	Flickers when a transmission is sent by the Curfew Unit.
Battery	Lit (solid LED) when the backup battery is fully charged. Flashes when the backup battery is charging.
Power	Lit (solid LED) when external power is connected. Off when external power is disconnected.

4.3 Checking the One-Piece GPS Unit's Battery Status

To check the One-Piece GPS Unit's Battery Status:

- Press and hold the Activation button on the front of the One-Piece unit for one second.



The PWR LED flashes green once.

i If the PWR LED flashes red, or not at all, the One-Piece unit needs to be charged.

4.4 Attaching the Tamper Plugs

On the rear of the brackets on the One-Piece unit, attach tamper plugs.

To attach the tamper plugs

1. Into each bracket on the back of the One-Piece unit, insert a tamper plug.



2. Loosely place the tamper plug into the slot in the bracket.

3. Push the tamper plug into the slot making sure to enter the right side first.
4. Secure the tamper plug by pushing the left side of the tamper plug into the slot.

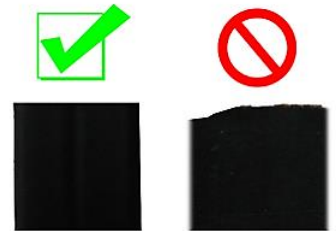
4.5 Preparing the Strap

Before attaching the One-Piece unit to the offender's ankle, you need to prepare the strap. Preparing the strap involves the following actions:

- Measuring and cutting the strap to fit the size of the offender's ankle.
- Installing the pin-trays.

To prepare the strap:

1. Examine both ends of the strap and check that the strap has been cut evenly. If the strap has been cut at an angle or the fiber optic cable is protruding, proceed with step 2. If both ends are cut evenly move to step 3.



i If using a reinforced strap, make sure that the copper wire is cut evenly and is not protruding from the strap.

2. Spread the handles of the strap installation tool and insert the uneven end of the strap into the measuring slot. Push the strap in until the edge of the strap is at the edge of the slot. Squeeze the handles together to cut the end of the strap. Keeping the handles together, tilt the strap installation tool, and tap out the cut piece of strap.
3. Spread the handles of the strap installation tool and insert the pin tray into the slot located on the handle. Push the pin tray in until it stops.

Note that the metal pins should be facing upwards and the silicone plug should be under the lip of the slot.



4. Lay the strap installation tool in the palm of your hand. Place the strap over the pin tray and ensure that the end of the strap is touching the lip of the pin tray slot.
5. Squeeze the handles together until the strap is firmly attached to the pin tray.



6. Examine the end of the strap to ensure that the edge is even with the silicone plug and that no gaps are visible



7. Insert the strap with the attached pin tray into the bracket of the strap installation tool.



8. Place the strap installation tool with the strap around the offender's ankle.
9. Insert the free end of the strap into the cutter slot and push it through to the other side.



10. Tighten the strap to the desired length. It should fit tightly around the offender's ankle allowing room for one finger between the offender's leg and the strap.



11. Squeeze the two handles of the strap installation tool to cut the extra strap.
12. Attach the second pin tray to the other side of the strap as explained in steps 3, 4, 5 and 6.

4.6 Attaching the One-Piece GPS Unit to the Offender's Ankle

Once the strap is cut to size with a pin tray attached to both ends, you are ready to attach the One-Piece unit to the offender's ankle.

To attach the One-Piece unit to the offender's ankle:

1. Insert the strap with the attached pin tray into one of the pin tray brackets until it snaps into place.



2. Place the One-Piece unit on the offender's leg just above the ankle.
3. Insert the other end of the strap into the second pin tray bracket until it snaps into place.
4. Make sure that both pin trays have snapped into place and are locked.



4.7 Activating the One-Piece GPS Unit

After the One-Piece unit is firmly secured to the offender's ankle, you are ready to activate.

- i** For a detailed description of the LED indications displayed during the activation sequence, see 2.1.4 LED Indication During Activation Sequence.

To activate the One-Piece unit:

1. Press and hold the Activation button on the front of the One-Piece unit until the unit vibrates once. The PWR LED begins to flash red and the GPS and Zone LEDs flash green.



2. Call the monitoring center and request that they download the offender's program to the unit. When the data transfer sequence begins PWR, GPS, and Zone LEDs will begin to flash green once per second.
3. After the data transfer is complete, the GPS and Zone LEDs begin to flash green twice per second indicating that the One-Piece unit is searching for a GPS signal. Take the offender outside to acquire a GPS signal.
4. After the GPS signal is received, the Zone and GPS LEDs begin flashing three times per second, indicating that the One-Piece unit is searching for its Curfew Unit.

- i** Optionally, you can skip the Curfew Unit search and conclude the activation process by pressing the activation button on the One-Piece unit at this stage.

When the One-Piece unit detects the Curfew Unit, the One-Piece unit vibrates three times and the GPS and Zone LEDs stop flashing. The PWR LED continues to flash green, indicating that the unit is on.

The One-Piece unit is activated successfully.

5 Status Alerts


The following sections provide a reference to the various status alerts and indications that can be generated by the One-Piece unit.

5.1 Low Battery

A Low Battery alert shows that the One-Piece unit's battery is running low and needs to be recharged.

This status is indicated by the following:

- The device initially vibrates three times.
- The PWR LED flashes red once every second until the device is connected to the charger.
- The device vibrates once every ten minutes until the device is connected to the charger.

 The One-Piece GPS unit must be charged for a minimum of two hours daily. The hours do not have to be consecutive.

5.2 Motion No GPS

The Motion No GPS alert means that the One-Piece unit has detected 10 minutes of accumulated motion by the offender within a 60-minute period without receiving a GPS signal.

This status is indicated by the following:

- The device initially vibrates once.
- The GPS LED flashes red once every second.
- The device vibrates once every ten minutes until the violation has cleared by acquiring GPS.

5.3 Strap Tamper

A Strap Tamper alert occurs if the strap has been damaged or cut. By default, the One-Piece unit does not indicate this condition. If vibration notification is enabled, the unit vibrates to indicate this status.

5.4 Case Tamper

A Case Tamper condition indicates that the unit has been damaged or opened. By default, the One-Piece unit does not indicate this condition. If vibration notification is enabled, the unit vibrates to indicate this status.

5.5 Geographic Zone Alerts

Geographic Zone alerts are triggered when the offender has violated one or more zone restrictions.

- Inclusion Zone – Geographic areas like home or work in which the offender is required to be during prescheduled intervals. If the offender is outside the Inclusion zone, a violation condition is triggered.
- Exclusion Zone – Geographic areas that the offender is forbidden to enter. These can be off-limits at all times or during pre-scheduled intervals. When the offender enters an Exclusion zone, a violation condition is triggered.

Geographic Zone alerts are indicated as follows:

- If vibration notification is enabled, the device initially vibrates three times.
- The Zone LED flashes red once every second until the zone violation is resolved.
- If vibration notification is enabled, the device vibrates once every ten minutes until the zone violation is resolved.

5.6 Curfew Zone Alert

A Curfew Zone alert indicates that the offender has violated a curfew restriction:

- Curfew Zone – The location where the Curfew Unit has been installed and in which the offender is required to be present during pre-scheduled intervals. If the offender is not within range of the Curfew Unit according to the defined schedule, a violation condition is triggered.

Curfew Zone alerts are indicated as follows:

- If vibration notification is enabled, the device initially vibrates three times.
- The Zone LED flashes red once every second until the zone violation is resolved.
- If vibration notification is enabled, the device vibrates once every ten minutes until the zone violation is resolved.

5.7 Curfew Unit Tamper

Curfew Unit Tamper alerts indicate that Curfew Unit has been moved and/or disconnected from external power.

By default, the One-Piece unit does not indicate that this status has occurred. If vibration notification is enabled, the unit vibrates to indicate this status.

6 Dismantling the One-Piece GPS Unit

Dismantling the One-Piece unit involves:

- Performing an End of Service (when applicable).
- Removing and packing the One-Piece GPS Unit.
- Removing and packing the Curfew Unit.

6.1 Before Dismantling

Before leaving the monitoring center, check that you have the following dismantling tools:

- Strap installation tool – for measuring and cutting the strap
- 0.2" (5mm) flathead screwdriver – for removing tamper plugs

In addition, make sure to bring the original carrying case for the One-Piece GPS Unit and the Curfew Unit.

6.2 Performing an End of Service

In some cases, it is required to remove the One-Piece unit before full period of the offender's monitoring program is completed. In this case, you must perform a manual End of Service procedure removing the One-Piece unit from the offender's ankle.

To perform End of Service:

1. Call the monitoring center and ask the monitoring personnel to perform End of Service.
2. The monitoring center personnel will call back to confirm a successful End of Service. You can now remove the One-Piece GPS Unit and Curfew Unit.

6.3 Removing the One-Piece GPS Unit

The strap installation tool includes a feature that enables you to cut the fiber optic strap in order to remove the One-Piece unit from the offender's ankle.

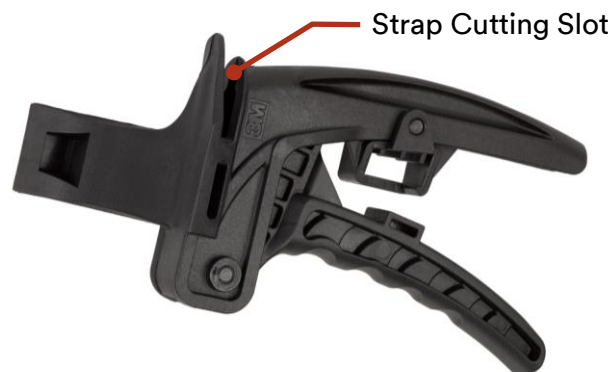


Figure 9: Position of Strap Cutting Slot on 3M™ Strap Installation Tool

To remove the One-Piece unit from the offender's ankle:

1. Spread the handles of the strap installation tool.
2. Insert the One-Piece unit's strap in the strap cutting slot.



3. Squeeze the handles together to cut the strap and remove the One-Piece unit from the offender's leg.
4. Using a flathead screwdriver, apply pressure on the tamper plugs to break them.
5. Use the screwdriver to remove the tamper plugs from the brackets.



6. At one end of the strap, use the screwdriver to depress the latch on the pin tray.



7. While keeping the latch depressed, pull the strap out of the bracket.
8. Repeat steps 6 and 7 for the other end of the strap that is still attached.
9. Collect the tamper plugs, pin trays and pieces of strap that you have disassembled. Do not leave any disposable items on site.
10. Pack the One-Piece GPS Unit, its power adapter and charging attachments into their original carrying case.

6.4 Removing the Curfew Unit

To remove the Curfew Unit:

1. Disconnect the Curfew Unit from the external power source. The Curfew Unit turns off.
2. Pack the Curfew Unit into its original carrying case.