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Smart Tag 5 XB Installation Manual

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DOCUMENT HISTORY

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1.0	22-03-2023	B Buike	First Release
1.1	04-04-2023	B Buike	Section 8 – Up-date the FCC Statement Section 9 – Up-date the ISED Statement

REFERENCED DOCUMENTS

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1. Introduction

This document is intended to be the source reference material for using the Smart Tag 5 XB product, with the exception of electronic configuration (including set-up and interaction with the on-line monitoring portal). The emphasis here is upon describing the physical features, charging, correct fitting and removal etc.

2. Equipment Description



- A. On-Body Charger (OBC) Dock – used to charge the On-Body Charger (OBC) battery. The OBC Dock is plugged into the mains and the OBC is clipped over it during charging.
- B. On-Body Charger (OBC) – used to daily charge the Smart Tag 5 XB battery. The OBC is clipped over the Smart Tag 5 XB during charging.
- C. Smart Tag Strap – for securing the Smart Tag 5 XB to a subject. The strap is available in a number of sizes depending on the subject’s ankle size.
- D. Smart Tag 5 XB - Ankle worn electronic monitoring device. One is required per subject.
- E. Locking Plate- Two plastic Locking plates are required per Smart Tag 5 XB. The locking plates will be damaged upon removal of the Strap, therefore new locking plates must be installed in the Smart Tag before it can be fitted to a new Subject.

F. Removal Tool – is used to release the strap and remove the Smart Tag 5 XB from the subject. It punctures very small holes in a very controlled location on the Locking Plates and releases the strap. Not shown above.

3. Smart Tag 5 XB Fitting

The Smart Tag 5 XB should be prepared for fitting to the subject by clipping two new Locking Plates in position as shown below in red for clarity.



The Locking Plates will be secured in position when the Strap is inserted into the Smart Tag 5 XB, they protect the strap from being released without physical damage being created for evidence gathering purposes.

Measure around the ankle, holding the measuring tape loosely. Record the measure in millimetres (mm).



Using the strap sizing reference material select the strap size recommended for the subject's ankle measurement.

Fit the Strap into the Smart Tag 5 XB at one side, then wrap around the ankle of the subject ensuring the arrow on the front surface is pointing upwards, and connect the free end of the Strap into the Smart Tag 5 XB. A clear 'click' will be heard as the Strap securely engages inside the Smart Tag 5 XB, it should be possible to slip two fingers behind the strap to ensure enough movement for cleaning, charging and general comfort.

The fitting of the strap will create a closed optical circuit which is continuously monitored by the Smart Tag.

4. Smart Tag 5 XB Operation

The Smart Tag 5 XB communicates to a server-based monitoring platform, which interprets the data provided to populate a web portal user interface. The data sets include the following:

- Event Time.
- GPS Location (Intervals can be defined, or a real-time request made).
- Geofence Data (Virtual zones for inclusion or exclusion set by map data).
- Position Type (GPS, RF Beacon).
- Speed of Motion.
- Battery Level.
- Charger On / Off.
- Signal Strength.
- Strap On / Off (Off includes tampering or cutting).
- Alerts (Based upon one or more of the above).

Alerts can take the form of notifications within the web portal, by e-mail, SMS to mobile phone notifications or vibration feedback within the Smart Tag on the subject.

When in proximity to an RF Beacon, the Smart Tag 5 XB will not attempt to achieve new GPS fixes, resulting in significantly less demand on battery power.

5. Smart Tag Removal

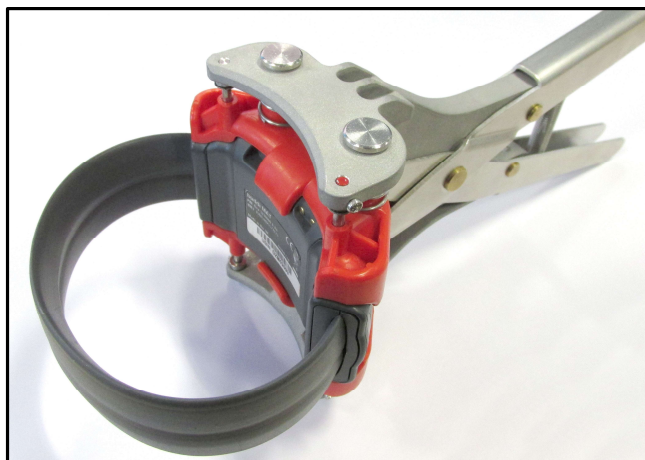
Note any obvious sign of damage to the Smart Tag 5 XB, or Strap in accordance with local protocol.

When removing the Smart Tag 5 XB from a subject, protective gloves should be worn.

Check that the locking plates are complete, correctly located and undamaged. If locking plates are damaged, follow local protocol which may include cutting the strap and retaining evidence if necessary.

With no locking plate damage, use the removal tool to release the strap at one end.

Using the release tool, engage the plastic jaws over the Smart Tag 5 XB and begin to squeeze the handles together. The jaws will self-locate to the correct position and the release pins will puncture the Locking Plate, continue to squeeze until the Strap is released. Only one end of the Strap will be released, this is indicated by the red markers on the end of the release pins.



6. On Body Charger (OBC)

The OBC battery will require recharging at intervals consistent with the operating mode being used. It is intended that the OBC is connected to an OBC Dock when not in use, to charge up the device in preparation for connection to the Smart Tag 5 XB, to fully charge the OBC it should be connected for at least 4 hours.

The OBC is attached to the Smart Tag 5 XB by clicking it over the unit. The Smart Tag can only be inserted in one orientation and as the OBC fits over it there is a click sound which indicates the correct fit.

The status LED on the OBC provide the following information:

Status	LED
Battery flat	None
Charging OBC on dock	Quick flashing green LED
Charged OBC on dock	Solid green LED
Charged OBC ready to use (not on dock)	Blink green LED
OBC - charging Tag	Fading in and out green LED

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OBC – fully charged Smart Tag 5 XB	Slow flashing green LED		

7. Sanitization and Re-Use

7.1. Smart Tag 5 XB

7.1.1. Collection

The Smart Tag 5 XB will be removed as per the removal process above.

- Place the Smart Tag 5 XB and strap into a clean plastic bag and return them to the vehicle for inspection and cleaning.

7.1.2. Inspection

The Smart Tag 5 XB should be inspected for signs of damage, units with damage should be dealt with in accordance with local protocols. Damage includes any significant surface marking which may be indicative of the unit being exposed to high impacts or tampering. Special care should be taken to ensure the following areas are inspected;

- Any seam between plastic casings, damage here may indicate the sealing surfaces of the unit are damaged.
- The inside surfaces of the strap acceptance area. The unit should be returned for testing if there is any sign of wear in this area.

7.1.3. Cleaning

If there is any heavy soiling or biological matter on the unit that is unlikely to be easily removed by a sanitising wipe, then the unit should be cleaned thoroughly in line with local protocol.

To sanitise a Smart Tag 5 XB in the field the following process should be followed;

- Wear gloves.
- Using the removal tool, release the Smart Tag 5 XB from the Strap and remove the locking plates.
- Wrap the unit in an approved sanitising wipe.
- Rub the unit vigorously with the wipe ensuring all surfaces receive a good covering of alcohol.
- Wrap the unit in a new wipe and place in a sealed plastic bag for at least one minute.
- Remove the unit from the bag, dispose of the wipe and allow the unit to dry in a well-ventilated area.

The unit can then be returned to stock for re-use.

7.2. Smart Tag 5 XB Strap

7.2.1. Collection

When handling the Strap protective gloves should be worn.

The strap will be freed from the Smart Tag as part of the Smart Tag 5 XB Removal process above.

7.2.2. Inspection

The Strap should be inspected for signs of damage, straps with damage should be dealt with in accordance with local protocols. Damage includes any significant surface marking which may be indicative of the unit being exposed to high impacts or tampering. Special care should be taken to inspect the following areas;

- The flexible strap material, both inner and outer most surfaces.
- All visible surfaces of plastic, particularly the join between the flexible and rigid sections. Damage in this area could be indicative of tampering and may adversely affect the future performance of the device.
- The tongue area that engages with the Smart Tag, particularly the locking clips. Damage or excessive wear in this area could affect the future performance of the device.
- Debris, soiling or damage to the optical end of the strap.

7.2.3. Cleaning

If there is any heavy soiling or biological matter on the unit that is unlikely to be easily removed by a sanitising wipe, then the unit should be cleaned thoroughly in line with local protocol.

To sanitise a Strap in the field the following process should be followed;

- Wear gloves.
- Wrap the strap in an approved sanitising wipe.
- Rub the strap vigorously with the wipe ensuring all surfaces receive a good covering of alcohol.
- Wrap the strap in a new wipe and place in a sealed plastic bag for at least one minute.
- Remove the strap from the bag, dispose of the wipe and allow the strap to dry in a well-ventilated area.

The strap can then be returned to stock for re-use.

7.3. OBC

7.3.1. Collection

When collecting an OBC from a subject protective glove should be worn.

- Note any obvious sign of damage.
- Return the OBC to the vehicle for inspection and cleaning.

7.3.2. Inspection

The OBC should be inspected for signs of damage, units with damage should be dealt with in accordance with local protocols. Damage includes any significant surface marking which may be indicative of the unit being exposed to high impacts or tampering. Special care should be taken to inspect the following areas;

- Any seams between plastics, check for loose fits or evidence of attack by screwdriver or similar.
- The clipping features that lock the unit closed over the Smart Tag 5 XB. Any damage to these could affect the unit's future performance.
- The charging cable and jack connectors. Any damage to this could mean the unit is unable to be recharged.
- The charging pins, any damage to these could mean the unit is not effective at charging a Smart Tag 5 XB.

7.3.3. Cleaning

If there is any heavy soiling or biological matter on the unit that is unlikely to be easily removed by a sanitising wipe, then the unit should be cleaned thoroughly in line with local protocol. It should be noted that the OBC is only a splash proof product and therefore it is important not to fully immerse the unit in any liquid.

To sanitise an OBC in the field the following process should be followed;

- Wear gloves.
- Rub the unit vigorously with an approved sanitising wipe, ensuring all surfaces receive a good covering of alcohol.
- Allow to dry in a well-ventilated area.

The unit can then be returned to stock for re-use.

8. FCC Statement

This equipment complies with FCC radiation exposure limits set forth in an uncontrolled environment for portable use.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance. No changes shall be made to the equipment without the manufacturer's permission as this may void the user's authority to operate the equipment.

9. ISED Statement

This device complies with ISED's 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.

This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment for portable use. End users must follow the specific operating instructions for satisfying RF exposure compliance. No changes shall be made to the equipment without the manufacturer's permission as this may void the user's authority to operate the equipment.

Ce dispositif est conforme à la norme RSS exemptée de licence de l'ISED. L'opération est soumise aux deux conditions suivantes : (1) ce dispositif peut ne pas causer d'interférence, et (2) ce dispositif doit accepter toute interférence, y compris les interférences qui peuvent causer le fonctionnement indésirable de l'appareil.

Cet équipement est conforme aux limites d'exposition au rayonnement d'ISDE établies pour un environnement non contrôlé à usage portable. Les utilisateurs finaux doivent suivre les instructions d'utilisation spécifiques pour satisfaire à la conformité à l'exposition aux RF. Aucune modification ne doit être apportée à l'équipement sans l'autorisation du fabricant, car cela pourrait annuler l'autorisation de l'utilisateur d'utiliser l'équipement.