



Excellence in Compliance Testing

Certification Exhibit

**FCC ID: U4A-MODBLE9051
IC: 6982A-MODBLE9051**

**FCC Rule Part: 15.247
IC Radio Standards Specification: RSS-247**

ACS Project Number: 15-0143

Manufacturer: Assa Abloy Inc.
Model: BLE9051

Manual

Manual

Assa Abloy: Sargent Manufacturing and Corbin Russwin Factory Installation Instructions

Factory Installation Instructions for IN120 reader assemblies Models BIP, BIP-M, BIPS, BIPS-M, BCP and BCP-M, with Bluetooth Smart Model: BLE9051 Assembly: 52-9051 RF Module.

FCC Specific Statement:

"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.*
- *Consult the dealer or an experienced radio/TV technician for help."*

General Statements (For all devices):

Warning: Changes or modifications to this device not expressly approved by Assa Abloy could void the user's authority to operate the equipment.

Industry Canada Specific Statements:

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.

*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.*

Users in the USA and Canada English:

Operation is subject to the following two conditions:

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.

RF Exposure

For Mobile Devices include the following:

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

Pour les usagers résidant au Canada (French):

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.

Énoncé d'exposition à la radiation

Pour les appareils mobiles sont les suivants:

"Cet équipement est conforme aux limites d'exposition à la radiation RF FCC prévues pour un environnement non contrôlé. Cet équipement doit être installé et doit fonctionner avec une distance minimum de 20 centimètres des utilisateurs et des personnes Environnantes. Cet émetteur ne doit pas être co-localisées ou opérant en conjointement avec une autre antenne ou émetteur

Assembly Drawings and Instructions:

53-5378TAB

52-5376RTAB

52-4890

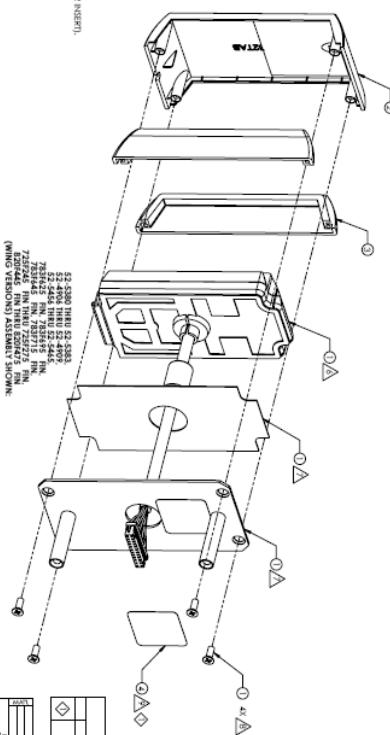
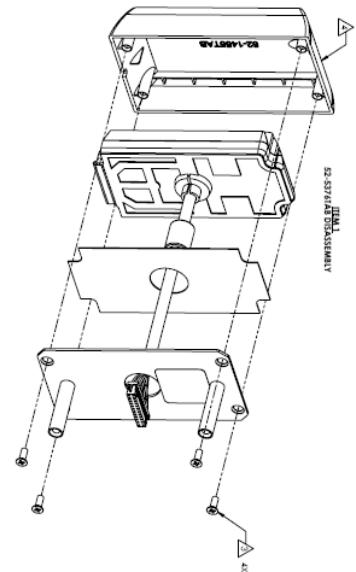
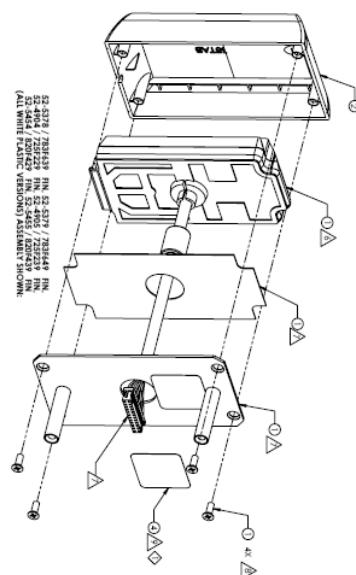
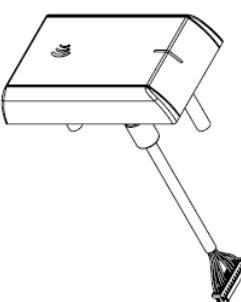
Factory Configuration Instructions:

The assembly 52-9051-0000-000 IN120 BT shall be programmed at the manufacturing facility with firmware. The firmware version to be programmed into the unit shall be V5.09, which applies an advertising rate of 20ms and a RSSI tap sensitivity of -55dB.

Field Configuration Instructions:

At the customer site, encryption keys are loaded by a "Mobile Keys" certified technician using an HID configuration card. This installation can be performed on mobile enabled readers only. Once the "Mobile Keys" have been loaded interface with mobile devices can be achieved.

The HID BLE Configuration application is currently available on Android OS and provides additional configuration that can be used to configure tap sensitivity and transmission power. Transmission power is restricted to a maximum of 0dBm. The HID BLE Configuration application can be used to upgrade the BLE devices firmware using the OTA technology. Field firmware upgrades can only be performed through and HID certified technician that are authorized to use a controlled administration card.



CITICAL CHARACTERISTICS & KEY CHARACTERISTICS		REASON
DESCRIPTION	REQUIREMENT	LABEL, IF NO. PRESENT, CORRECT INFORMATION ABOUT ASSEMBLY
<input type="checkbox"/> LABEL NO.	<input checked="" type="checkbox"/> ASSEMBLY	CORRECT DISTRIBUTION

NOTE

1. REMOVE ITEM 1 FROM PACKAGING (IND. & ANTISTATIC BAG). RETAIN PACKAGING FOR AIR USE.

FOR S2-5439 S2-5440, S2-4915, S2-5440 & S2-5441 ONLY (ALL BLACK PLASTIC VERSIONS): STRIP DIRECTLY TO NOTE 9.

FOR S2-5439 S2-5440, S2-4915, S2-5440 & S2-5441 DISCARD ORIGINAL COVER.

FOR S2-5439 S2-5440, S2-4915, S2-5440 & S2-5441 (WING VERSIONS): SLIDE FINISHED ITEMS 3 (WINGS) ON PLACE ELECTRONICS ASSEMBLY OF ITEM 1 INTO ITEM 2 (COVER).

FEED WINGS OF ELECTRONICS ASSEMBLY THRU ANTENNA SHIELD AND MOUNTING PLATE (PARTS OF ITEM 1) AS SHOWN.

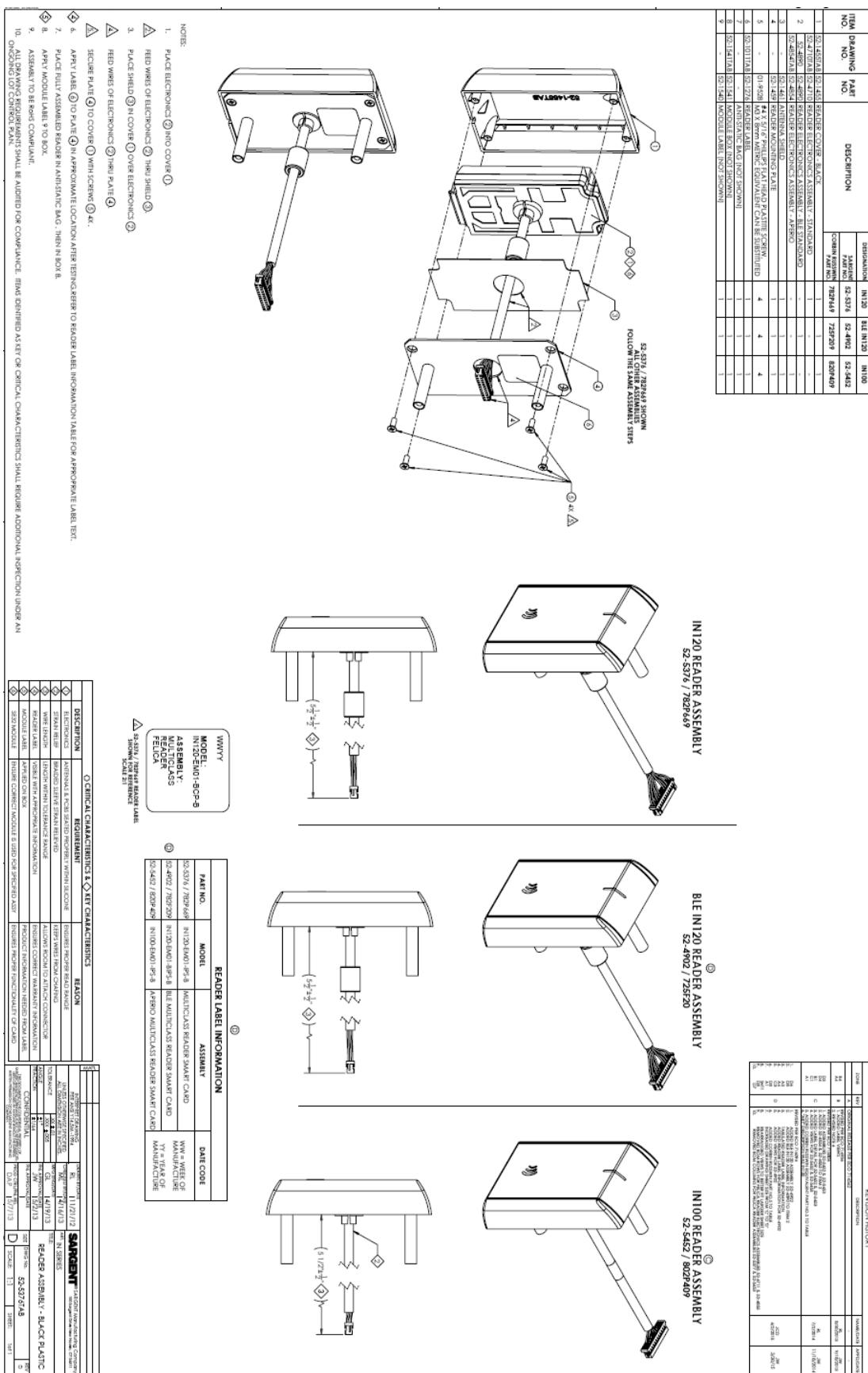
SECURE PLATE TO ITEM 2 (COVER) WITH 41 SCREWS REMOVED FROM ITEM 1. SCREW TORQUE: 0.85 NM (4.9 POUND-INCH).

APPLY ITEM 4 (READER LABEL) OVER EXISTING READER LABEL, AFTER TETING.

10. PLACE FULLY ASSEMBLED READER BACK IN A INSTANTIC BAG, THEN IN A CO.

11. APPLY MODULE LABEL ITEM 6A WITH NEW INFORMATION OVER EXISTING MODULE LABEL ON BOX.

12. ASSEMBLY TO BE BONG CONSISTANT.



ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	QTY.	REVISION HISTORY			
					EDITION	REV	DESCRIPTION	HARDWARE
1	52-1656	52-1656	READER BOOT	1	A	ORIGINAL RELEASE PER ECO 71004		-
2	52-1453AB	52-1453	SE30 READER MODULE STANDARD	1				
3	52-1454	52-1454	HIGH FREQUENCY ANTENNA	1				
4	52-1456	52-1456	HF ANTENNA CONNECTOR	5				
5	52-1455	52-1455	LOW FREQUENCY ANTENNA	1				
6	01-0908	01-0908	CABLE TIE	1				
7	52-4708	52-4708	READER HARNESS	1				
8	52-9051-0000-000	52-9051-0000-000	INT208TED SOUNDER PCB	1				

NOTES:

- ① SOLDER ② TO ③ VIA 5X④ AS SHOWN. PLEASE NOTE ORIENTATION OF 5X④, AND OFFSET BETWEEN ② & ③. LEAD PROTRUSION SHOULD BE NO MORE THAN .031". FOLLOW IPC-A-610 LATEST REVISION FOR ACCEPTANCE.
- ② SOLDER 2X LEADS OF ⑤ TO ②. LEAD PROTRUSION SHOULD BE NO MORE THAN .031". FOLLOW IPC-A-610 LATEST REVISION FOR ACCEPTANCE.
- ③ PLACE ② SX ④, ③ & ⑤ INTO ①. MOST IMPORTANTLY, MAKE SURE ③ & ⑤ (ANTENNA(S)) ARE SEATED SECURELY AGAINST BOOT AS SHOWN IN DETAIL B.
- ④ MAKE SURE LEADS FROM ⑤ TO ② ARE NOT TWISTED, BENT, OR PINCHED.
- ⑤ PLUG ⑦ INTO ⑥.
- ⑥ USE ⑨ TO STRAIN RELIEVE WIRES OF ⑦ TO ⑧. MAKE SURE STRAIN RELIEF CABLE TIE ⑩ CLAMPS SLEEVE IN PLACE OVER WIRES.
- ⑦ FEED WIRES OF ⑦ THROUGH SLOT IN COVER OF ①.
- ⑧ ALIGN AND PLUG ⑧ INTO ②.
- ⑨ FOLD AND CLOSE THE END OF ① ONTO THE BASE OF ① TO SECURE ALL ITEMS INSIDE.
- ⑩ ASSEMBLY TO BE ROHS COMPLIANT.
- 11. ALL DRAWING REQUIREMENTS SHALL BE AUDITED FOR COMPLIANCE. ITEMS IDENTIFIED AS KEY (◊) OR CRITICAL (○) CHARACTERISTICS SHALL REQUIRE ADDITIONAL INSPECTION UNDER AN ONGOING LOT CONTROL PLAN.

UNFOLDED VIEW
ITEM ⑦
REMOVED FOR CLARITY

SECTION A-A
ITEMS ⑥ & ⑦
REMOVED FOR CLARITY

DETAIL B
SCALE 4:1
ITEMS ⑥ & ⑦
REMOVED FOR CLARITY

MATERIALS

ITEM	DESCRIPTION	QUANTITY	DATE	REV
1	INTERIOR DRAWING PER AND 14.1M-194 UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS IN INCHES	1	JCD 04/11/15	SARGENT Sargent Manufacturing Company 100 Sargent Drive New Haven, CT 06470
2	ALL TOLERANCES X .005 IN. O.D. TOLERANCE	1	REF ID: 31715 GL 3/27/15	TIME
3	ANGLE 45°	1	REF ID: 31715 AA 4/21/15	READER ELECTRONICS ASSEMBLY - BLE
4	TRACTION CONFIDENTIAL	1	REF ID: 31715 REV D/P 4/9/15	INFORMATION CONTAINED HEREIN IS UNCLASSIFIED DATE 4/9/15 BY SP/SP/SP
5	SIZE	1	D/W NO. 52-4690	REV A
6	SCALE	1:1	SHEET: 1 of 1	