

Manual

Assa Abloy: Sargent Manufacturing and Corbin Russwin Factory Installation Instructions

Factory Installation Instructions for Reader assemblies with Bluetooth. Model: BLE9118K.

Warning

Changes or modifications to this device not expressly approved by ASSA ABLOY could void the user's authority to operate the equipment.

FCC:

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.

Industry Canada:

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.

General Regulatory Compliance:

This device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's license-exempt RSS(s). 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. Cet appareil contient des émetteurs/récepteurs exemptés de licence conformes aux RSS d'Innovation, Sciences et Développement économique Canada. Cet appareil est conforme à la section 15 de la réglementation de la FCC.

L'opération est sujette aux deux conditions suivantes: (1) ce dispositif peut ne pas causer l'interférence nocive, et (2) ce dispositif doit accepter n'importe quelle interférence reçue, y compris l'interférence qui peut causer l'opération peu désirée.

This equipment complies with FCC and IC radiation exposure limits set forth for general population (uncontrolled environment). This device must not be co-located or operating in conjunction with any other antenna or transmitter.

Cet équipement est conforme aux limites d'exposition aux radiations de la FCC et IC définies pour la population générale (environnement non contrôlé). Cet appareil ne doit pas être co-localisé ou fonctionner en conjonction avec une autre antenne ou un autre émetteur.



This product can expose you to lead which is known to the state of California to cause cancer and birth defects or other reproductive harm. For more information go to: www.P65warnings.ca.gov.

Ce produit peut vous exposer au plomb qui, dans l'état de la California, est reconnu pour causer le cancer, des anomalies congénitales ou d'autres problèmes de reproduction.

Pour plus d'informations, visitez: www.P65warnings.ca.gov.



Any retrofit or other field modification to a fire rated opening can potentially impact the fire rating of the opening, and SARGENT Manufacturing makes no representations or warranties concerning what such impact may be in any specific situation. When retrofitting any portion of an existing fire rated opening, or specifying and installing a new fire-rated opening, please consult with a code specialist or local code official (Authority Having Jurisdiction) to ensure compliance with all applicable codes and ratings.



To avoid possible damage from electrostatic discharge (ESD), some basic precautions should be used when handling electronic components:

- Minimize build-up of static by touching and/or maintaining contact with unpainted metal surfaces such as door hinges, latches, and mounting plates especially when mounting electronic components such as readers and controllers onto the door.
- Leave components (reader and controller) protected in their respective anti-static bags until ready for installation
- Do not touch pins, leads or solder connections on the circuit boards

Assembly Drawings and Instructions:

52-4964TAB

Model BLE9118K is Sargent assembly P/N 52-4965 and Corbin Russwin assembly P/N 851P979

Factory Configuration Instructions:

Model BLE9118K shall be programmed at the manufacturing facility with firmware.

Field Configuration Instructions:

BLE9118K LF (125kHz) and HF (13.56MHz).

LF and HF may only be field configured by a certified technician with the Assa Abloy LCT (Lock Configuration Tool) for card credential type, and either ultra-low power mode or normal power mode.

BLE9118K Bluetooth

Bluetooth is not part of the BLE9118K certification, BLE for this model uses a certified Supra Direct Key Module.

ITEM	DRAWING NO.	PART NO.	DESCRIPTION	MFG. PART NO. & MANUFACTURE QTY.		MFG. DIMENSIONS (LXWxD)	MATERIAL	COLOR	REVISIONS		
				ASSEMBLY P/N	MANUFACTURE QTY.					ZONE	REV.
1	52-1682TAB	52-1678	READER FRONT COVER - KEYPAD BLACK	1	1				REVISED PER ECO 720797: 1. ADDED ITEM TO (28) SHIELD & ASSEMBLY STEP 7 (PH 2) 2. REMOVED BOM (5 1541) FROM ASSEMBLY	9/14/2018	RL
2	52-1682TAB	52-1682	HIGH FREQUENCY ANTENNA AND ESD SHIELD ASSEMBLY	1	1				REVISED PER ECO 720797: 1. MOVED POSITION OF LABEL 13 2. ADDED ADHESIVE TAPE TO STEP 4 (SHEET 2)	1/24/2019	RL
3	52-1682TAB	52-1682	READER KEYS - BLACK	1	1				(IN 22057 - 2M 1 ROW) ADDED ITEM TO "20" BWP. RE-ARRANGED KEYS (1 ROW) 1. DISPLAYED VIEW (HW 2.5 & 4.2) CHANGED P-COMPL. ADDED ITEM TO (20) VIEW ADDED (1) P-COMPL. NOT CONFORM TO ASSA ABLOY KEYPAD (3) LTD. AB-111. SEE VIEW FOR STEP 2. 1. & 2. 11 & 8 IS EXCHANGED VERTICALLY. ADDED VIEW FOR STEP 11. ADD PROTECTIVE FILM FOR KEYS	6/21/2019	EWB
4	52-1864	52-1864	KEYPAD HOOP	1	1						
5	52-1868	52-1868	LOW FREQUENCY ANTENNA COIL	1	1						
6	52-4554	52-4554	HID BLE BLUE TOOTH (LOW ENERGY) ANTENNA ASSEMBLY	1	1						
7	52-1867	52-1867	ANTENNA HOLDER	1	1						
8	52-1867	52-1867	SNAP DOME ARRAY	1	1						
9	52-9117-20000-200	52-9117-20000-200	CREDENTIAL CONTROLLER PCB ASSEMBLY - FN MID BLUE TOOTH	1	1						
10	52-9118-20000-200	52-9118-20000-200	CREDENTIAL CONTROLLER PCB ASSEMBLY - FN BLUE DIAMOND	1	1						
11	52-1869	52-1869	HIGH FREQUENCY ANTENNA STACK CONNECTOR	1	1						
12	52-1490	52-1490	HID KEY READER MODULE	1	1						
13A	52-1830TAB	52-1830	SS PCB STANDBY (BREAK PART OFF READER COVER)	1	1						
13B	52-1831	52-1831	FN KCC LABEL - HD	1	1						
14	52-1830TAB	52-1830	FN KCC LABEL - HD	1	1						
15	52-1861	52-1861	QR CODE LABEL - BLUE/DIAMOND	1	1						
16	52-1540TAB	52-1540	ANTI-STATIC BAG (NOT SHOWN)	1	1						
17	52-1540TAB	52-1540	MODULE LABEL (NOT SHOWN)	1	1						

52-4964 / 851P969 SHOWN
(HID BLE, KEYPAD, & PROXIMITY READER)

NOTES:

- KEYPAD CHARACTERISTICS:
 - (CONTACT TOUCH FORCE: 90 grams (0.40 SNAP)) REFERENCE
 - (CONTACT RESISTANCE: 3 TO 1 (350 ohms) FORCE: 200 ohms MAX
 - (KEY CYCLE LIFE TO REACH 1 MILLION CYCLES: 8 TO 1 (350 ohms) FORCE: MAX CONTACT RESISTANCE 400 ohms.
- FOR SUGGESTED MODULE ASSEMBLY REFERENCE STEPS & NOTES, REFER TO SHEET 2.
- PLACE FULLY ASSEMBLED READER IN ANTI-STATIC BAG (16).
- APPLY MODULE LABEL (15) TO BAG (16). SEE LABEL DRAWING FOR APPROPRIATE LABEL INFORMATION.
- ASSEMBLY TO BE ROHS COMPLIANT.
- 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.

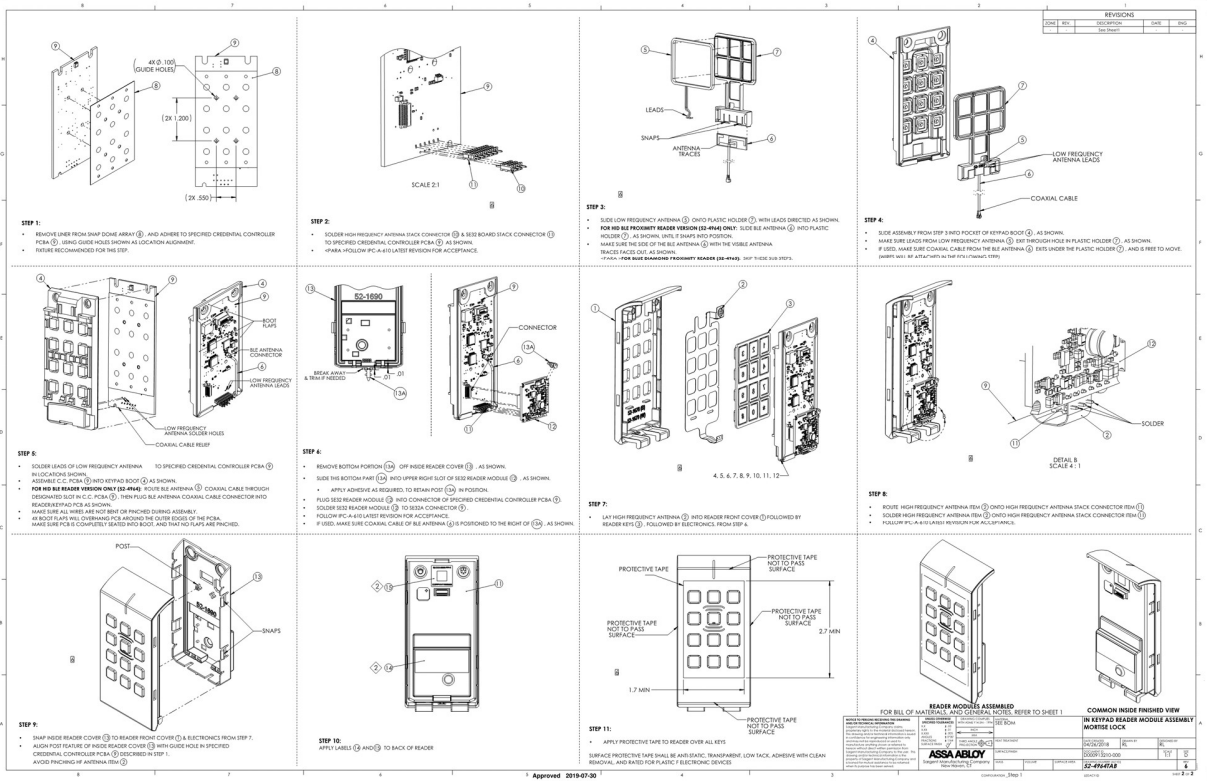
DESCRIPTION	REQUIREMENT	REASON
ALL KEYS	MEET KEYPAD CHARACTERISTICS	KEYPAD FUNCTIONALITY & DURABILITY
READER LABEL & FCC LABEL	VISIBLE WITH CORRECT INFORMATION	ENSURES CORRECT WARRANTY INFORMATION
MODULE LABEL	APPLIED ON BAG WITH CORRECT INFORMATION	PRODUCT INFORMATION NEEDED FROM LABEL

IN KEYPAD READER MODULE ASSEMBLY		MORTISE LOCK	
DATE	04/26/2018	DATE	04/26/2018
BY	REL	DATE	04/26/2018
BY	REL	DATE	04/26/2018
BY	REL	DATE	04/26/2018

ASSA ABLOY		Sargent & Greenleaf, a subsidiary of Assa Abloy	
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Approved 2019-07-30

CONFORMANCE: Default LEGACY ID: SHEET 1 OF 2



REVISIONS			
ZONE	REV.	DESCRIPTION	DATE

STEP 1:

- REMOVE USER FROM SNAP DOME ARRAY (1), AND ADHERE TO SPECIFIED CREDENTIAL CONTROLLER PCB (2), USING GUIDE HOLES SHOWN AS LOCATION ALIGNMENT.
- REUSE RECOMMENDED FOR THIS STEP.

STEP 2:

- SOLDER HIGH-FREQUENCY ANTENNA STACK CONNECTOR (3) & BOARD STACK CONNECTOR (4) TO SPECIFIED CREDENTIAL CONTROLLER PCB (2) AS SHOWN.
- *PARRA HOLDON PCB A-10 LATEST REVISION FOR ACCEPTANCE.

STEP 3:

- SLIDE LOW-FREQUENCY ANTENNA (5) ONTO PLASTIC HOLDER (6) WITH LEADS DIRECTED AS SHOWN.
- FOR THE HIGH-FREQUENCY READER VERSION (24-4946) ONLY:** SLIDE RF ANTENNA (7) INTO PLASTIC HOLDER (6) AS SHOWN, UNTIL STAPLS ARE POSITIONED.
- MAKE SURE THE SIDE OF THE RF ANTENNA (7) WITH THE COAXIAL ANTENNA TRACES FACES OUT AS SHOWN.
- *FOR THE HIGH-FREQUENCY READER VERSION (24-4946), SKIP THESE TWO STEPS.

STEP 4:

- SLIDE ASSEMBLY FROM STEP 3 INTO POCKET OF KEYPAD BODY (8), AS SHOWN.
- MAKE SURE LEADS FROM LOW-FREQUENCY ANTENNA (5) EXTEND THROUGH HOLE IN PLASTIC HOLDER (6), AS SHOWN.
- IF USED, MAKE SURE COAXIAL CABLE FROM THE RF ANTENNA (7) EXTEND UNDER THE PLASTIC HOLDER (6), AND IS FREE TO MOVE. VERIFY THIS BY ATTEMPTING TO BEND THE COAXIAL CABLE.

STEP 5:

- SOLDER LEADS OF LOW-FREQUENCY ANTENNA (5) TO SPECIFIED CREDENTIAL CONTROLLER PCB (2).
- INDICATORS SHOWN.
- ADHERE C.C. PCB (2) INTO KEYPAD BODY (8) AS SHOWN.
- FOR THE HIGH-FREQUENCY READER VERSION (24-4946) ONLY:** ROUTE RF ANTENNA (7) COAXIAL CABLE THROUGH DESIGNATED SLOT IN C.C. PCB (2). VERIFY THAT THE ANTENNA COAXIAL CABLE CONNECTOR END OF READER PCB (2) IS AS SHOWN.
- HAVE SURE ALL WIRE ARE NOT BENT OR PINCHED DURING ASSEMBLY.
- IF BUILT FROM THE COMBINED PCB SHOWING THE CUTTER TOOLS OF THE PCB, MAKE SURE PCB IS COMPLETELY SEATED INTO SLOT, AND THAT NO FLAPS ARE PINCHED.

STEP 6:

- REMOVE BOTTOM PORTION (9) OFF INSIDE READER COVER (10) AS SHOWN.
- SLIDE THIS BOTTOM PART (9) INTO UPPER RIGHT SLOT OF REE READER MODULE (8) AS SHOWN.
- APPLY ADHESIVE AS REQUIRED TO REPAIR PORT (10) IN POSITION.
- ROUTE REE READER MODULE (8) INTO CONNECTOR OF SPECIFIED CREDENTIAL CONTROLLER PCB (2).
- SOLDER REE READER MODULE (8) TO BOARD CONNECTOR (4).
- ROUTE PCB A-10 LATEST REVISION FOR ACCEPTANCE.
- IF USED, MAKE SURE COAXIAL CABLE OF RF ANTENNA (7) IS POSITIONED TO THE RIGHT OF (10) AS SHOWN.

STEP 7:

- LAY HIGH-FREQUENCY ANTENNA (7) INTO READER FRONT COVER (11) POSITIONED BY READER KEYS (12), HOLOGRADED BY ELECTRONIC FROM STEP 8.

STEP 8:

- ROUTE HIGH-FREQUENCY ANTENNA (7) ONTO HIGH-FREQUENCY ANTENNA STACK CONNECTOR ITEM (4).
- SOLDER HIGH-FREQUENCY ANTENNA (7) ONTO HIGH-FREQUENCY ANTENNA STACK CONNECTOR ITEM (4).
- INSURE PCB A-10 LATEST REVISION FOR ACCEPTANCE.

STEP 9:

- SNAP INSIDE READER COVER (10) TO READER FRONT COVER (11) ELECTRONICS FROM STEP 7.
- ALIGN POST PLATE OF INSIDE READER COVER (10) WITH GUIDE HOLE IN SPECIFIED CREDENTIAL CONTROLLER PCB (2) DESCRIBED IN STEP 1.
- AVOID PINCHING OF ANTENNA ITEM (5).

STEP 10:

- APPLY LABELS (13) AND (14) TO BACK OF READER.

STEP 11:

- APPLY PROTECTIVE TAPE TO READER CLEAR AREA.
- SURFACE PROTECTIVE TAPE SHALL BE AN ISOLATING, TRANSPARENT, LOW TACK, ADHESIVE WITH CLEAN REMOVAL, AND RATED FOR PLASTIC/ELECTRONIC DEVICES.

READER MODULE ASSEMBLY
 FOR BILL OF MATERIALS AND GENERAL NOTES, REFER TO SHEET 1

COMMON READER MODULE VIEW IN KEYPAD READER MODULE ASSEMBLY
 MORISSE LOCK

ASSA ABLOY
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