



Excellence in Compliance Testing

Certification Exhibit

**FCC ID: U4A-MODBLE9052
IC: 6982A-MODBLE9052**

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

ACS Project Number: 15-0143

**Manufacturer: Assa Abloy Inc.
Model: BLE9052**

Manual

Manual

Assa Abloy: Sargent Manufacturing and Corbin Russwin Factory Installation Instructions

Factory Installation Instructions for P 1\2\WI1\IP1 reader assemblies Models BIKMPS, BIMPS, BCKMP and BCMP with Bluetooth Smart Model BLE9052 Assembly: 52-9052 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 ex-

empts 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

IC Detachable Antenna Statement:

This radio transmitter Model BLE9052 has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain and required antenna impedance for each antenna type indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

Le présent émetteur radio Model BLE9052 a été approuvé par Industrie Canada pour fonctionner avec les types d'antenne énumérés ci-dessous et ayant un gain admissible maximal et l'impédance requise pour chaque type d'antenne. Les types d'antenne non inclus dans cette liste, ou dont le gain est supérieur au gain maximal indiqué, sont strictement interdits pour l'exploitation de l'émetteur.

The antenna type used on the Px BT LED Sounder board assembly: 52-9052 with antenna 52-4891 is of type: Dipole

The antenna shall have an impedance of 50 ohms.

The measured GAIN for the antenna to be utilized in the transmitter Model BLE9052 can be found in the table below:

P1\P2\WI1\IP1 Model BLE9052 Assembly: 52-9052 BLE READER					
Frequency	TRP (dBm)	EIRP(dBm)	Efficiency	TX Power (dBm)	Antenna Gain (dBi)
2402	-6.85	-0.44	0.206538	-0.12	-0.32
2426	-6.05	0.49	0.248313	0.21	0.28
2480	-4.8	1.4	0.331131	0.35	1.05

Assembly Drawings and Instructions:

52-4894TAB

52-4889

Factory Configuration Instructions:

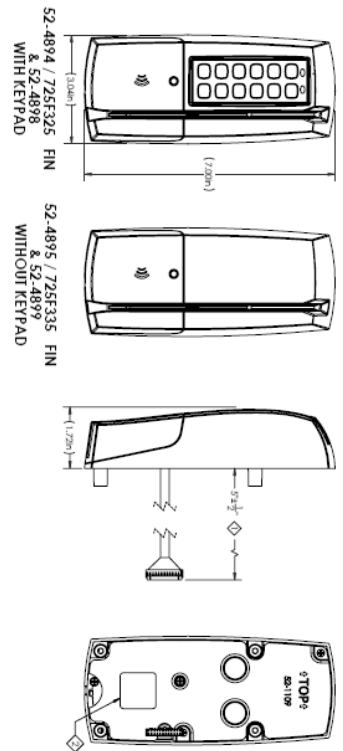
The assembly 52-9052-0000-000 P 1\2\WI1\IP1 BT shall be programmed at the manufacturing facility with firmware. The firmware version to be programmed into the unit shall be V5.09, which applies an advertising rate of 20ms and a RSSI tap sensitivity of -55dB.

Field Configuration Instructions:

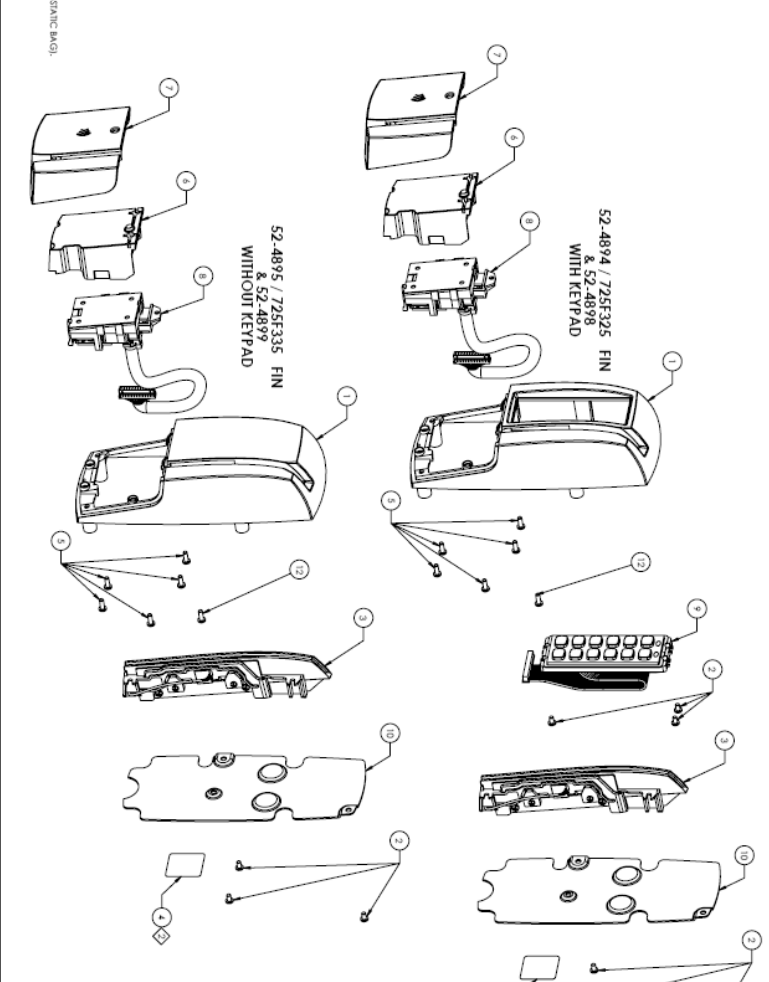
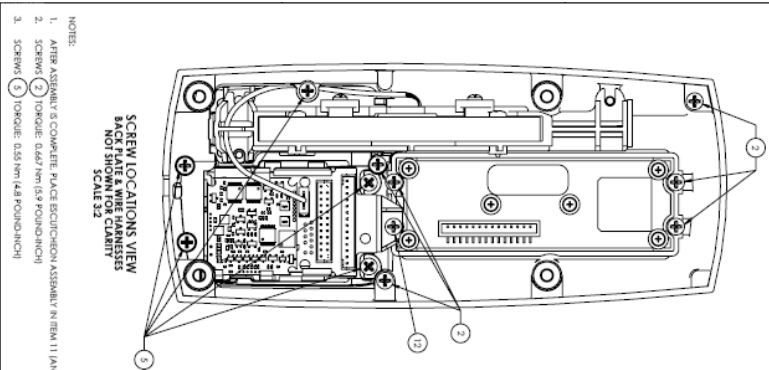
At the customer site, encryption keys are loaded by a “Mobile Keys” certified technician using an HID configuration card. This installation can be performed on mobile enabled readers only. Once the “Mobile Keys” have been loaded interface with mobile devices can be achieved.

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.

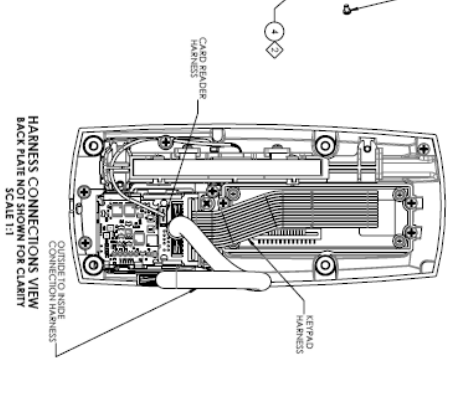
ITEM NO.	DRAWING NO.	SAFARI PART NO.	DESCRIPTION
1	52-1504/AB	52-1504	FIN DOOR SCROTCHION W/ KEYPAD
2	52-1502	52-1502	FIN DOOR SCROTCHION W/O KEYPAD
3	52-5991/AB	52-426	SWITCH BEZEL ASSEMBLY
4	52-011/AB	52-2725	KEYPAD LABEL
5	52-1503	52-1503	FIN DOOR SCROTCHION W/O KEYPAD
6	52-1505	725F325	FIN BIMP'S REPLACEMENT
7	52-4898	725F325	FIN BIMP'S REPLACEMENT
8	52-5993/AB	52-2895	SLAM STYLE KEYPAD ASSY (BLU)
9	52-5993/AB	52-2895	SLAM STYLE KEYPAD ASSY (BLU)
10	52-1506	725F325	FIN BIMP'S REPLACEMENT
11	52-1507	725F325	FIN BIMP'S REPLACEMENT
12	52-1508	725F325	FIN BIMP'S REPLACEMENT



ITEM	REV	REVISION HISTORY
1	1	INITIAL DESIGN
2	2	DESIGN CHANGES
3	3	DESIGN CHANGES

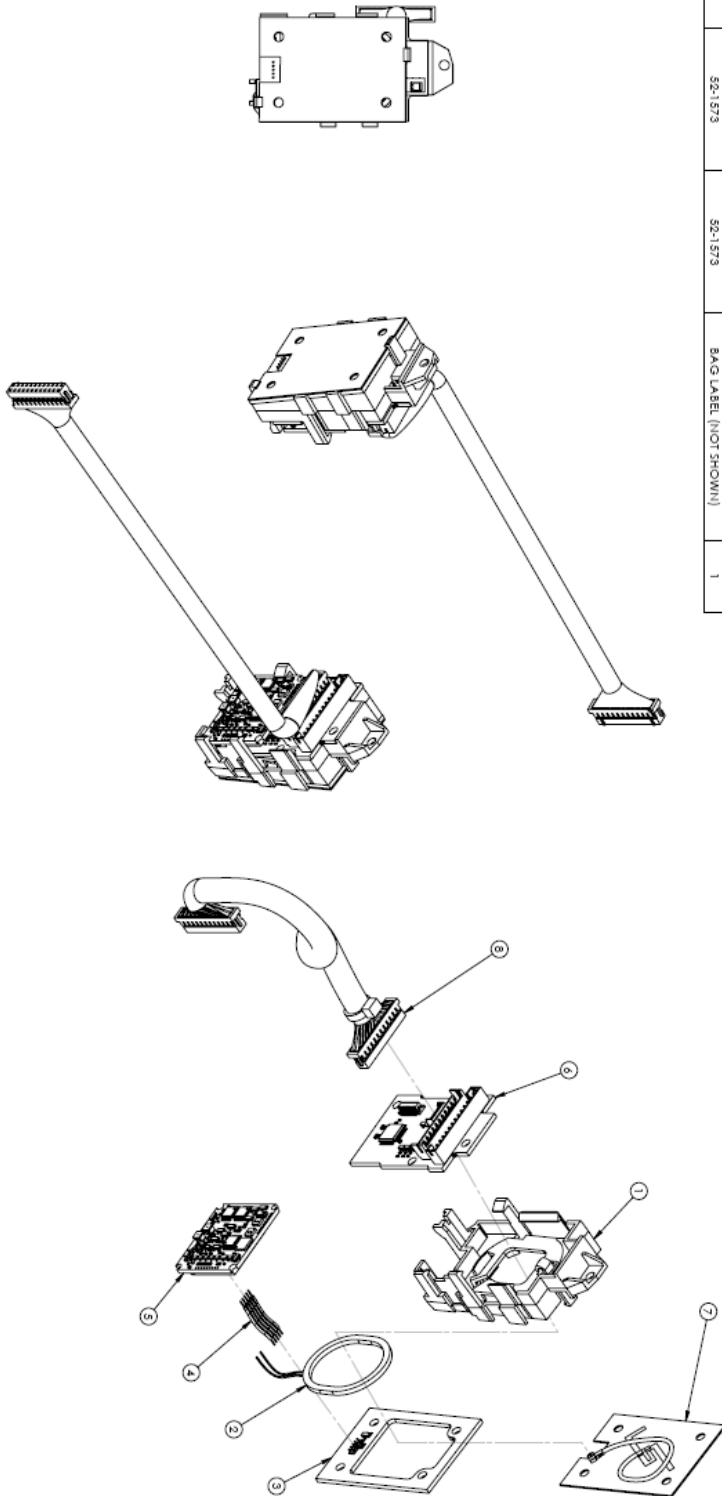


DESCRIPTION	REQUIREMENT	REASON
HARNES LENGTH	IDENTIFY THE CORRECT HARNES LENGTH	RELIABLE CONNECTION
LABEL INFO	LABEL SHOULD POSITIVELY CORRECTLY IDENTIFY THE HARNES BETWEEN OUTSIDE & INSIDE WIRING	CORRECT IDENTIFICATION



- NOTES:
1. ATTR. ASSMBLY'S CORRECT PLACE SCROTCHION ASSMBLY N/ITEM 11 (JANUSIANIC BAG).
 2. SCREW TORQUE: 0.667 Nm (15.9 POUNDS-INCH).
 3. SCREWS TORQUE: 0.53 Nm (14.8 POUNDS-INCH).

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	QTY.
1	52-1444	52-1444	PCB AND ANTENNA HOLDER	1
2	52-1445	52-1445	LOW FREQUENCY ANTENNA	1
3	52-1428	52-1428	HIGH FREQUENCY ANTENNA	1
4	52-1565	52-1565	ANTENNA RIBBON CABLE	1
5	52-14437A.B	52-1443	5832 READER MODULE STANDARD	1
6	52-9050-0000-000	52-9050-0000-000	PX VALVE BT LED SQUINDER PCB	1
7	52-4891	52-4891	BT ANTENNA ASSEMBLY	1
8	52-4792	52-4792	HARNESS AS37	1
9	-	-	ANTI-STATIC BAG (NOT SHOWN)	1
10	52-1573	52-1573	BAG LABEL (NOT SHOWN)	1



- NOTES:
1. ASSEMBLY TO BE PURCHASED FROM APPROVED SARGENT VENDOR. ALL PARTS ARE FOR REFERENCE ONLY.
 2. PLACE COMPLETE ASSEMBLY IN ANTI-STATIC BAG (PART 10) SEAL THE BAG AND APPLY LABEL (ITEM 11) TO ALL DRAWING REQUIREMENTS SHALL BE AUDITED FOR COMPLIANCE.
 3. ITEMS IDENTIFIED AS \diamond KEY OR \circ CRITICAL CHARACTERISTICS SHALL REQUIRE ADDITIONAL INSPECTION UNDER AN ONGOING LOT CONTROL PLAN.

DESCRIPTION	REQUIREMENT	REASON	STEP
\diamond LOW FREQUENCY ANTENNA	HANDLING CAUTION	DO NOT DEFORM COILS	2
\diamond COMPONENTS LOCATION	COMPONENTS OF HIGH FREQUENCY ANTENNA SHALL BE LOCATED TOWARD 5832 MODULE	BRIGHT CONNECTION	3
\diamond SOLDERED CONNECTIONS	INSPECT SOLDERED CONNECTIONS FOR SHORTS AND OPENS COLD SOLDER JOINTS	CONNECTION QUALITY	3, 5
\diamond CONFIRM ITEM PART NUMBER	NO PART NUMBER MISMATCH; ASSEMBLY REQUIREMENTS	FUNCTIONAL REQUIREMENTS	3
\diamond U.F.I. CONNECTOR	INSPECT U.F.I. PLUG BETWEEN CABLE AND PCB FOR POSITIVE CONNECTION	CONNECTION QUALITY	6

REVISION HISTORY	DATE	DESCRIPTION	BY	CHKD
A	08/17/15	ORIGINAL RELEASE PER EN 714284		

DATE PREPARED	12/16/15	DATE CHECKED	9/16/15
DATE APPROVED	12/16/15	DATE RELEASED	3/17/15
DATE OF NEXT REVIEW	12/16/15	DATE OF NEXT REVIEW	9/27/15
DATE OF NEXT REVIEW	12/16/15	DATE OF NEXT REVIEW	12/16/15
DATE OF NEXT REVIEW	12/16/15	DATE OF NEXT REVIEW	12/16/15

SARGENT SARGENT Manufacturing Company
1000 SARGENT Drive, New York, NY 10001

TITLE: READER RFD ASSEMBLY

DWG NO.: 52-4889

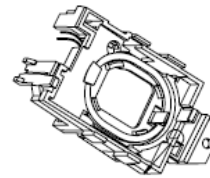
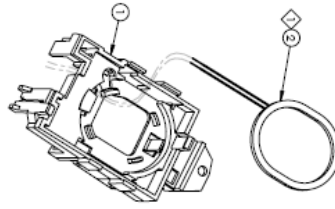
SCALE: 1:1

SHEET: 1 of 3

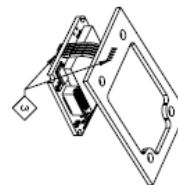
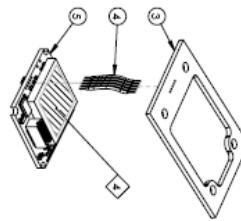
REV: A

CORBIN RUSSWIN
REF. PART NO.
725F302

- STEP 1:**
- A. INSERT LEADS OF ② INTO OPENING THROUGH ①
 - B. INSERT ② INTO SNAPS ON ①

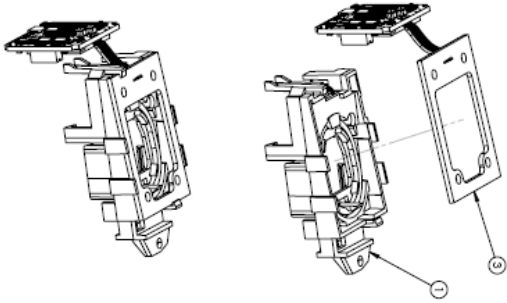


- STEP 2:**
- A. SOLDER LEADS OF ④ TO ITEMS ③ AND ⑤ AS SHOWN. COMPONENTS OF ③ TO BE ON BOTTOM SIDE AS SHOWN.
 - B. LEAD PROTRUSION SHOULD BE NO MORE THAN .001". FOLLOW IFC-A-610 LATEST REVISION FOR ACCEPTANCE.

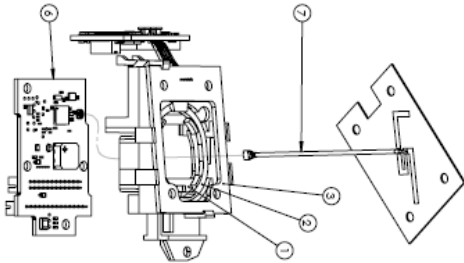


REVISION HISTORY			
DATE	REV	DESCRIPTION/REASON	APPROVAL
		SEE SHEET 1	

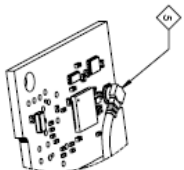
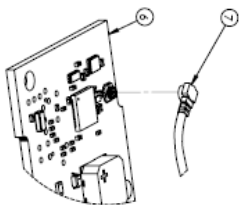
- STEP 3:**
- A. SNAP ③ INTO ① WITH COMPONENTS FACING IN AS SHOWN



- STEP 4:**
- A. INSERT COAXIAL CABLE OF ⑦ THROUGH CENTRAL OPENINGS OF ① & ② TOWARD ③



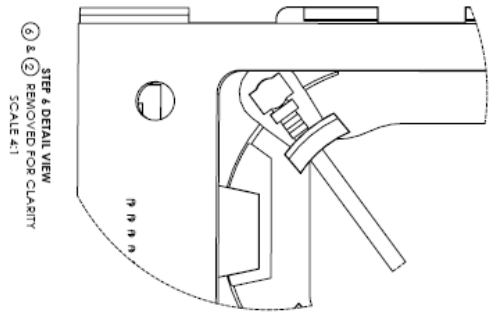
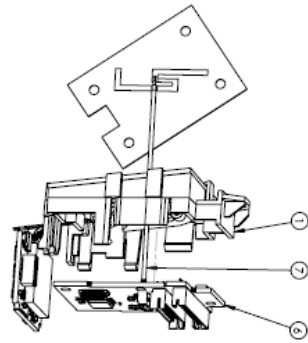
- STEP 5:**
- A. PRESS FIRMLY TO CONNECT U.F.C. CONNECTOR OF ⑦ TO ③
 - B. ROTATE TO ORIENT COAXIAL CABLE ⑦ AS SHOWN



MATERIAL		DRAWING		DATE	
STANDARD DRAWING	REV. AND ST. LEAD	3/6/15	3/6/15		
UNIT DIMENSIONS ARE IN INCHES.	ALL DIMENSIONS ARE IN INCHES.				
TOLERANCE	XX ± .010				
ANGLE	45° ± .005				
FINISH	ST. 1.0				
FUNCTION	ST. 1.0				
DATE	1/2/15				
SCALE	1:1				
DATE	1/2/15				
SCALE	1:1				

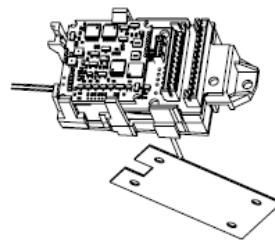
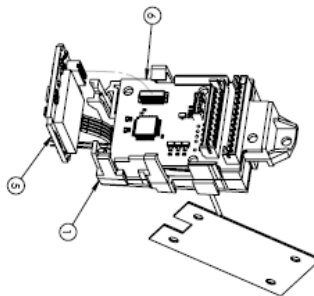
DRAWING		DATE	
DATE	1/2/15		
SCALE	1:1		

STEP 6:
INSERT (8) INTO INNERMOST SLOTS ON BACK OF (1) ENSURING CABLE OF (7) ALIGNS WITH OPENING IN (1)



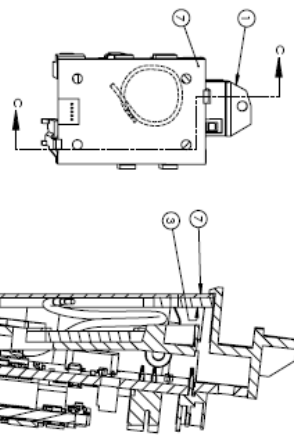
STEP 8 DETAIL VIEW:
(8) & (7) REMOVED FOR CLARITY
SCALE: 4:1

STEP 7:
A. ROTATE (3) INTO (1) WHILE ALIGNING PLUG CONNECTOR OF (3) AND MATING CONNECTOR OF (4).
B. ENSURE PLUG CONNECTOR BETWEEN (3) & (4) IS FULLY SEATED

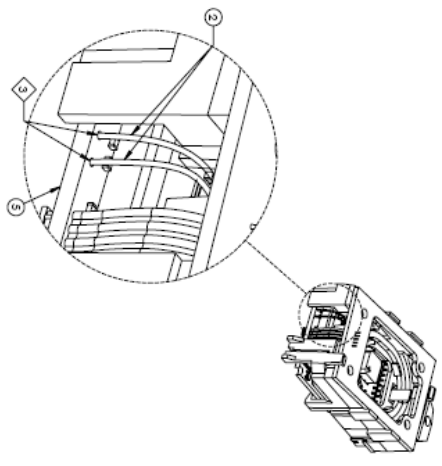


REVISION HISTORY			
DATE	REV	DESCRIPTION	APPROVAL

STEP 8:
A. COIL CABLE OF (7) INSIDE OF (1)
B. INSERT (7) INTO SHAP OF (1) ON TOP OF RF ANTENNA (3)

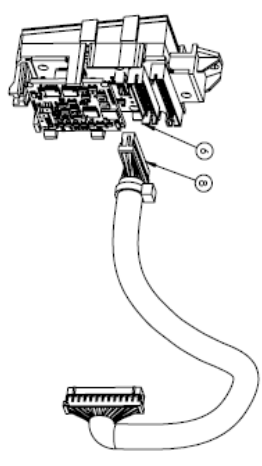


STEP 9:
A. INSERT LEADS OF (2) INTO HOLES IN (3) ENSURE LEADS ARE NOT TWISTED OR EXCESSIVELY LONG.
B. TRIM LEADS TO LENGTH AND SOLDER TO (3) AS SHOWN.
C. LEAD PROTRUSION SHOULD BE NO MORE THAN .031". FOLLOW IPC-A-610 LATEST REVISION FOR ACCEPTANCE.



STEP 9 DETAIL VIEW:
SCALE: 4:1

STEP 10:
INSERT CABLE TIED END OF (3) INTO MATING CONNECTOR 42 OHM (2)



DATE					
DRAWING REVISIONS					
REV	DATE	DESCRIPTION	BY	CHKD	DATE
1	3/17/15				
2	3/17/15				
3	3/17/15				
4	3/17/15				
5	3/17/15				
6	3/17/15				
7	3/17/15				
8	3/17/15				
9	3/17/15				
10	3/17/15				
11	3/17/15				
12	3/17/15				
13	3/17/15				
14	3/17/15				
15	3/17/15				
16	3/17/15				
17	3/17/15				
18	3/17/15				
19	3/17/15				
20	3/17/15				
21	3/17/15				
22	3/17/15				
23	3/17/15				
24	3/17/15				
25	3/17/15				
26	3/17/15				
27	3/17/15				
28	3/17/15				
29	3/17/15				
30	3/17/15				
31	3/17/15				
32	3/17/15				
33	3/17/15				
34	3/17/15				
35	3/17/15				
36	3/17/15				
37	3/17/15				
38	3/17/15				
39	3/17/15				
40	3/17/15				
41	3/17/15				
42	3/17/15				
43	3/17/15				
44	3/17/15				
45	3/17/15				
46	3/17/15				
47	3/17/15				
48	3/17/15				
49	3/17/15				
50	3/17/15				
51	3/17/15				
52	3/17/15				
53	3/17/15				
54	3/17/15				
55	3/17/15				
56	3/17/15				
57	3/17/15				
58	3/17/15				
59	3/17/15				
60	3/17/15				
61	3/17/15				
62	3/17/15				
63	3/17/15				
64	3/17/15				
65	3/17/15				
66	3/17/15				
67	3/17/15				
68	3/17/15				
69	3/17/15				
70	3/17/15				
71	3/17/15				
72	3/17/15				
73	3/17/15				
74	3/17/15				
75	3/17/15				
76	3/17/15				
77	3/17/15				
78	3/17/15				
79	3/17/15				
80	3/17/15				
81	3/17/15				
82	3/17/15				
83	3/17/15				
84	3/17/15				
85	3/17/15				
86	3/17/15				
87	3/17/15				
88	3/17/15				
89	3/17/15				
90	3/17/15				
91	3/17/15				
92	3/17/15				
93	3/17/15				
94	3/17/15				
95	3/17/15				
96	3/17/15				
97	3/17/15				
98	3/17/15				
99	3/17/15				
100	3/17/15				