



Zebra Technologies Corporation

3 Overlook Point, Lincolnshire, IL 60069

AIT Procedure and Guidelines
AIT RFID Check list

AIT RFID Check list

PROBLEM: RFID Check list.

Note1: These steps are to be worked with the customer. The customer will need the current version of the Zebra Setup Utility installed to obtain reports.

ACTION:

Voids or encoding wrong tag

- 1.) Ensure firmware is up to date. Check the web site.
- 2.) Ensure media is loaded correctly in printer.
Identify the print width and label length (size).
Identify mark, gap or notched media in use.
Use the correct media sensor for the media in use
Adjust if necessary.
- 3.) Default printer.
- 4.) Configure settings for the media in use.
- 5.) Run full ribbon and media manual calibration
- 6.) Send ^XA^HH^XZ using the Zebra Setup Utility.
- 7.) Save this file and attach it to the case.
- 8.) Identify print width and label length values and compare to actual size.
- 9.) Run RFID tag calibration – send ^XA^HR^XZ
- 10.) Save this file and attach to the case.
- 11.) Send RFID test ZPL formats. Note results in the case.

ZPL Formats for testing

Note These formats are best used with Zebra Setup Utilities or ZebraNet Bridge as they are designed to return the relevant data to the host PC.

Quick read/write test format

This format is a quick way to verify the printer is able to read and write the tag without errors. This will only return data back to the host; the labels will come out blank.

```
^XA
^RFW,H^FD123456789012^FS
^RFR,H^FN11^FS
^FH^HV11,,EPC:[,]_0D_0A,L
^XZ
```



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Serialization format

This format will print 5 serialized tags with 100000000001 to 100000000005 encoded and printed for verification purposes. This test is useful for verifying the correct tag is encoded.

```
^XA
^FT50,30^A0N,30,30^FDold EPC:^FS
^FT50,50^A0N,30,30^FN12^FS
^FT50,70^A0N,30,30^FDNew EPC:^FS
^FT50,90^A0N,30,30^FN11^FS
^RFR,H^FN12^FS
^RFW,H^SN100000000001,1,Y^FS
^RFR,H^FN11^FS
^FH_^HV11,,New EPC[:,]_0D_0A,L^FS
^FH_^HV12,,Old EPC[:,]_0D_0A,L^FS
^PQ5
^XZ
```

Escalation – Contact an advisor. We will assist or instruct to escalate the case.

If the printer is still voiding tags, the following information is required prior to escalation:

- Software used to create labels. (ZPL or label file.)
- Inlay manufacturer and part number (i.e Alien-9740, Confidex Slimline)
- RFID Calibration Summary (^XA^HR^XZ)
- An “allcv” report - ! U1 getvar “allcv”
Make sure Option time out is set to 100 instead of the default of 5.
- Printer configuration (^XA^HH^XZ)
- Photo
- How is the printer connected?
- What computer is in use? O/S?
- Driver in use. What version?

Revision History

Creation Date	Owner	Description	Version
5/3/2017	Jesse V/S Franklin	Original	1.0

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