

Zebra R2844-Z HF

Model Number: R2844-XXXXX-XXXX

The purpose of this guideline is to define the optimal transponder placement within the media such that the media can completely printed without use of the programmable encode position command.

Printer/ Encoder and Firmware

- Note that inlay placement within media may differ for each printer/ encoder model. The guidelines contained within this document are relevant only for the listed printer/ encoder(s).
- Guidelines are established using the latest firmware available for the printer/ encoder. Please ensure
 that the latest firmware is being utilized to get the optimum encoding performance. Firmware downloads
 may be found at www.zebra.com.

Transponder Orientation

- Inlay orientation is critical to ensure proper encoding.
- Transponder picture shown in guideline is how it must be inserted in into the media.
- · Picture shows the transponder orientation as seen through the facestock and media feed direction down.

Label Construction

- Zebra printer encoders are generally ran with a standard 1/8" gap between labels without a black mark
- If transponder placement guidelines to not allow for transponder to properly fit within the wanted label size, then a black mark may need to be introduced to create a "virtual" label to ensure proper encoding. This will usually also shift the label home position and therefore print formats may have to also be adjusted.
- The "Label Start" is defined by one of three different methods: 1) The physical leading edge of a label, 2) The leading edge of a black mark, or 3) The leading edge of a notch (Black mark and notch dimension requirements are outlined printer specifications).

Transponder Antenna Placement Dimensions

• There are three dimensions that are critical in determining transponder placement as shown in the schematic to the right and as explained below

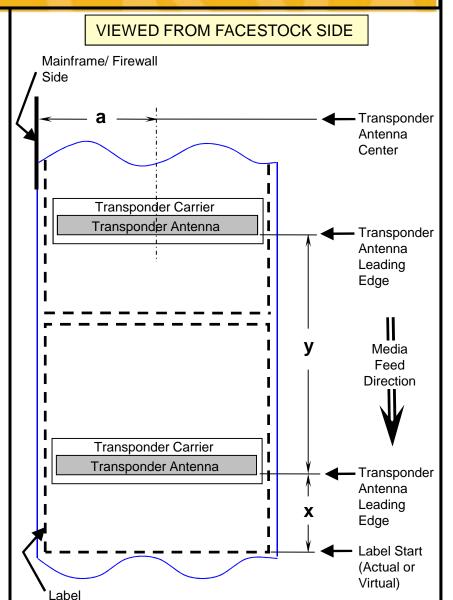
Dimension	Definition	Explanation				
а	Printer Mainframe/ Firewall (or Liner Edge) to Transponder Antenna Center	Coupling with the transponder changes across the width of the printer and can cause x and y dimensions to vary. Please note that dimension is always to the antenna center, not the chip or transponder carrier. Dimension generally given with a +/- 3mm tolerance.				
x	Label Start to Transponder Antenna Leading Edge	This dimension ensures coupling with the transponder in the current label to be printed without use of programmable encode position command. Please note that dimension is always to the antenna leading edge, not the chip or transponder carrier. Dimension generally given with a +/- 3mm tolerance.				
у	Transponder Antenna Leading Edge to Transponder Antenna Leading Edge Pitch	This dimension ensures coupling with only the transponder in the current label. Please note that dimension is always to the antenna leading edge, not the chip or transponder carrier. Dimension generally given as a ≥ 3 mm minimum distance.				

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TRANSPONDER PLACEMENT/ POWER GUIDELINES

Printer/ Encoder	Page
Zebra R2844-Z	1 of 4



Zebra R2844-Z HF

Model Number: R2844-XXXXX-XXXX

			Transponder			Transponder Placement (mm)			Printer/ Encoder Settings	
Guideline #	Revision Date	Protocol		Manufacturer		Orientation	а	X	у	
"	Duto		Manufacturer	Part Number	Option	Viewed through facestock/ Machine direction down	(± 3mm)	(± 3mm)	(ĺ)	Тад Туре
00001	10/12/2009	ISO 15693	Avery	AD-720	А		Label Width/2	5	48	ISO15693
00002	10/12/2009	ISO 15693	Raflatac	3000215	А	UPM RAPLATAC CO	Label Width/2	5	45	ISO15693
00003	10/12/2009	ISO 15693	Raflatac	3000938	А	The street	Label Width/2	5	88	ISO15693
00004	10/12/2009	ISO 15693	Avery	AD-709	А		Label Width/2	5	48	ISO15693
00005	10/12/2009	ISO 15693	Avery	AD-714	А		Label Width/2	5	96	ISO15693

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TRANSPONDER PLACEMENT/ POWER GUIDELINES

Printer/ Encoder	Page	
Zebra R2844-Z	2 of 4	



Zebra R2844-Z HF

Model Number: R2844-XXXXX-XXXX

				Transponder			Transponder Placement (mm)			Printer/ Encoder Settings
Guideline #	Revision Date	Protocol		Manufacturer		Orientation	а	x	у	
"	Duto		Manufacturer	Part Number	Option	Viewed through facestock/ Machine direction down	(± 3mm)	(± 3mm)	(ĺ)	Tag Type
00006	4/7/2010	ISO 15693	Avery	AD-730	А		Label Width/2	8	27	ISO15693
00007	1/19/2011	ISO 15693	Raflatac	3001922	A	UPA LACACIC Readons	Label Width/2	4	92	ISO15693
00008	2/3/2011	ISO 15693	Avery	AD-770	А		Label Width/2	7	25	ISO 15693
00009	7/19/2011	ISO 15693	Texas Inst.	RI-I11-114B-01	A	Taylor 18 a.	Label Width/2	4	52	ISO 15693
00010	9/21/2011	ISO 15693	Raflatac	3001920	А	UPM RAFLATAS	Label Width/2	4	93	ISO 15693

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Printer/ Encoder	Page
Zebra R2844-Z	3 of 4



Zebra R2844-Z HF

Model Number: R2844-XXXXX-XXXX

				Transponder			Transponder Placement (mm)			Printer/ Encoder Settings
Guideline #	Revision Date	Protocol		Manufacturer		Orientation		Х	у	
II'			Manufacturer	Part Number	Option	Viewed through facestock/ Machine direction down	(± 3mm)	(± 3mm)	(ĺ)	Tag Type
00011	09/21/2011	ISO 15693	Smartrac	3001921	А		Label Width/2	4	48	ISO 15693
00012	10/13/2011	ISO 15693	Texas Inst.	RI-I11-112A-03	A	The second secon	Label Width/2	4	61	ISO 15693
00013	04/19/2013	ISO 15693	Smartrac	3002486	А		Label Width/2	7	24	ISO 15693
00014	01/06/2014	ISO 15693	Smartrac	3002426	А		Label Width/2	9	24	ISO 15693

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TRANSPONDER PLACEMENT/ POWER GUIDELINES

Printer/ Encoder	Page
Zebra R2844-Z	4 of 4