<b>— R</b>	SPECIFICATION	Model No.	CRT-591-B
	SPECIFICATION	Date	2018/9/10
		Ver.	1.0
CREATOR	Card Dispenser	Page	1/12

# CRT-591-B Card Dispenser Specification



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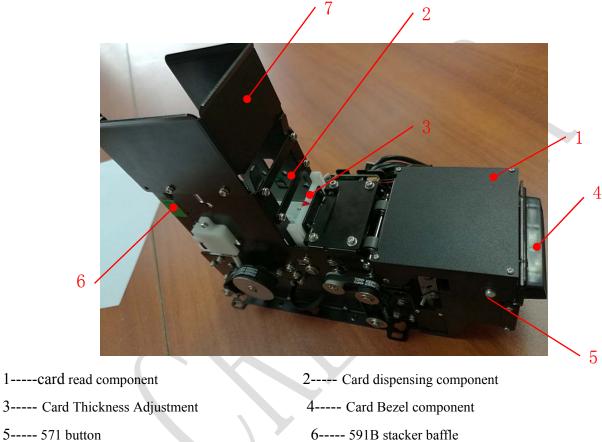
Http://www.china-creator.com

®	SPECIFICATION	Model No.	CRT-591-B
= =	SPECIFICATION	Date	2018/9/10
		Ver.	1.0
CREATOR	Card Dispenser	Page	2/12

### Welcome to use Creator's products

Please carefully read specification before using this card dispenser machine.

## Main structure of CRT-591-B:



5----- 571 button

7----- stacker for increase capacity of cards

Warning: Card issuing machine is forbidden to use above 30V voltage, if using, it will cause card issuing machine destroyed.

®	SPECIFICATION	Model No.	CRT-591-B
	SPECIFICATION	Date	2018/9/10
	Card Dispenser	Ver.	1.0
CREATOR		Page	3/12

### 1, OVERVIEW

CRT-591-B is card dispenser machine with IC card reading/writing operation (Customized product

mode: CRT-591-BES1)

Main features:

- 1 Half length of standard card is available to be read, dispensed and captured
- 2 PC/SC reading module, RS232 communication for card dispensing controlling
- ③ Multi-units communication: Support Max.8 sets
- 4 The stacker is of 400 pcs of cards capacity

#### 2、 Main function

- 1) Combination of card issuing and IC card encoding. IC card need to comply with relevant standards.
- 2) Card-Empty, Pre-card empty detection function.
- 3) Two methods of capturing cards: Error card bin and path (By removing the bars on the bottom)
- 4) Double hooks mechanism: The patented technology is compatible with dispensing and capturing cards of different lengths, and the operation is simple and convenient.
- 5) RS-232 and PC/SC dual channel control motheds, Support Multi-communication via RS232 interface

#### 3、Technical specification

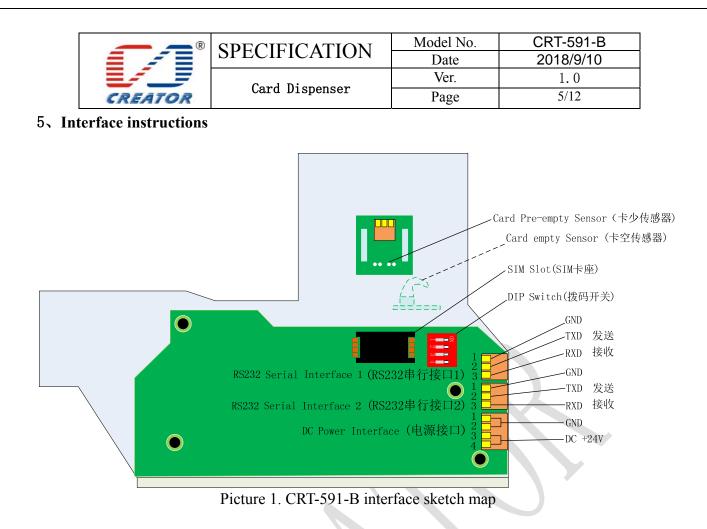
Items	Parameter instructions	Explanation
Support card type	type: ISO7816 standard IC card support to dispense IC card physical characteristics : ISO7810 and 7811、ISO7811 - 2、 IOS7811 - 4、ISO7811 - 5 and ISO7811 - 6 standard card dimension: ISO7810ID - 1 – IC card standard: ISO7816 standard, (AT24C01、24C02、、24C256; SLE4447、 SLE4428; CPU T=0/T=1) etc half length card specification: Len: 42~43mm width: 53.92 ~ 54.18 mm thickness: 0.76mm±0.08mm	
Reader module	Support to read & write contacting IC card PC/SC module, able to operate SIM card (CPU card)	
Dispensing cards	<ol> <li>Pushing the card out by using hook mechanism, the card is not scratched during card feeding</li> <li>Hook supports half length standard card</li> </ol>	
Stacker	<ol> <li>Capacity is about 400pcs;</li> <li>Support card less detection (7~15)</li> <li>Support card empty detection</li> <li>Removable heavy block is set in the stacker</li> </ol>	
Card captured	1. Support to capture the card to error card bin when it is diapensed	

	<sup>®</sup> SPECIFICATION	Model No.	CRT-591-B
		Date	2018/9/10
	Card Dispenser	Ver.	1.0
CREATOR	Card Dispenser	Page	4/12
	2. Support the structure of the without the lock structure i side of the card machine,	s able to be drawed ou	t from the
Bezel	1. With Bezel		
Reset	<ol> <li>Support power on reset fun</li> <li>Software reset function (int</li> </ol>	itialization)	
Command	<ol> <li>Support the card moving cc</li> <li>Support the card captured c</li> <li>Software supports dynamicard or half length card in (support PC/SC)</li> </ol>	commands ic identification stand	
Life time	<ol> <li>Transportation: 100,000t</li> <li>IC card contact pin: 300,0</li> </ol>		1000 times
Interface	<ol> <li>Support multi-communicat</li> <li>Power input (4PIN)</li> <li>Support firmware upgradin</li> <li>Support DLL for customers</li> </ol>	g	
Voltage and current	<ol> <li>DC 24V±5%</li> <li>Idle current ≤ 0.2A, peak</li> </ol>	current≦2A	
Certification	<ol> <li>Certified EMC/CE (GB92 standard requirement)</li> <li>ROHS</li> <li>Certified EMV L1</li> </ol>		3/T17626
System	1. Support windowXP, win	dow7、8	
Environment	1. operation $0^{\circ}C \sim 50^{\circ}C$		
conditions	2. storage $-25^{\circ}C \sim 70^{\circ}C$		
	3. operation humidity $5\% \sim$	90% (non condensin	lg)
dimension	Max size L*W*H (257mm*1		~
Spare parts	Provide cables for power supply	v and PC communicat	ion

#### 4. Accessory Description

#### 1) standard spare parts:

Name	BOM	Qty	Remark
591B heavy block	0591-0G971	1	
4PIN power cable	L14-333-153	1	4PIN、 length 1.5m
RS232	L10-006-163	1	3PIN、 length 1.6m
communication	L10-000-103	1	3PIN、 length 1.6m



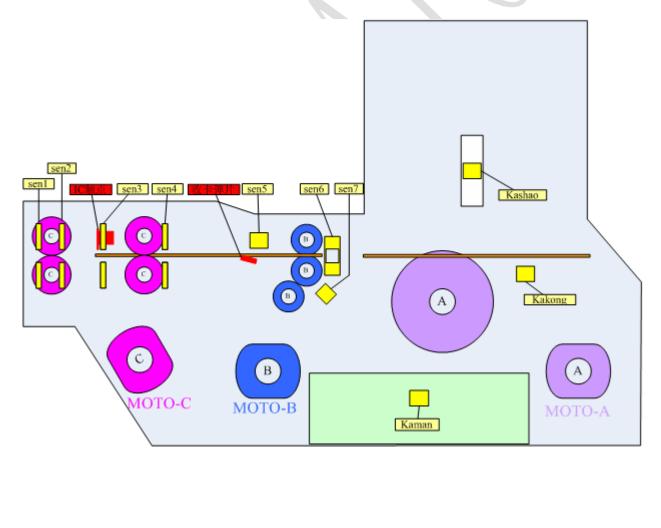
	1	红色 (red)	+24V
	2	黄色 (yellow)	+24V
	3	黑色 (black)	GND
	4	黑色 (black)	GND

Picture 2. 4PIN Power supply cable

	<b>A</b>	SPECIFICATION	Model No. Date	CRT-591-E 2018/9/10	
نتر	ATOR	Card Dispenser	Ver. Page	1.0	
卡机 RS232			Tuge	电脑PC D	 P9PIN座
1 棕色 (Brown)	RXD		$\longrightarrow$	2	TXD
2 (Red)	TXD		>	3	RXD
3  橙色 (Orange)	GND		>	5	GND

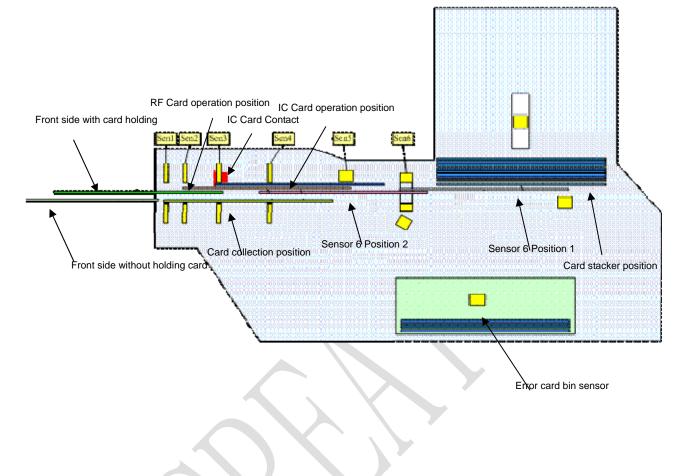
Picture 3. 3PIN serial cable and computer DP 9PIN connector cable

# **6**、Schematic diagram of the sensor position of machine:



<b>— R</b>	SPECIFICATION	Model No.	CRT-591-B
	SPECIFICATION	Date	2018/9/10
		Ver.	1.0
CREATOR	Card Dispenser	Page	7/12

### 7. The card stop position drawing:



### 8、 DIP Setting Of Unit Address

Through the 4-digit DIP switch on the main board, 1 to 3 can be used to set the address of each extension : (See table 1 below)

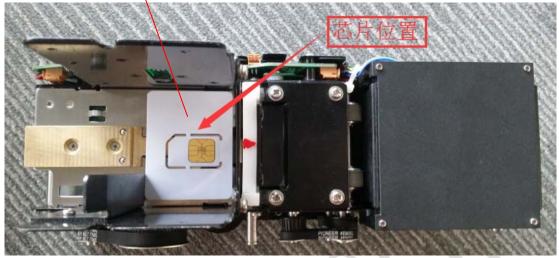
	<u>1</u>	<u>ON</u>	OF F	<u>ON</u>	OF F	<u>ON</u>	<u>OF</u> <u>F</u>	<u>ON</u>	OF F
Dip switch	<u>2</u>	<u>ON</u>	<u>ON</u>	OF F	OF F	<u>ON</u>	<u>ON</u>	OF F	<u>OF</u> <u>F</u>
	<u>3</u>	<u>ON</u>	<u>ON</u>	<u>ON</u>	<u>ON</u>	OF F	OF F	OF F	OF F
Address		00	01	<u>02</u>	<u>03</u>	<u>04</u>	<u>05</u>	<u>06</u>	<u>07</u>
								Cha	rt1

<b>— • •</b>	SPECIFICATION	Model No.	CRT-591-B
= /=	SPECIFICATION	Date	2018/9/10
		Ver.	1.0
CREATOR	Card Dispenser	Page	8/12

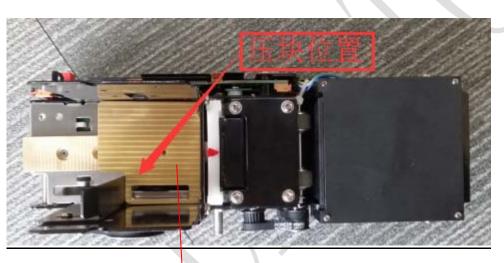
### 9、Notice

1) IC card position in stacker

The position of chip

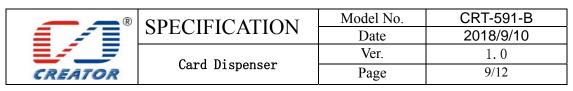


2) Iron block position in stacker



The block placement position

- 2) When using, please kindly note that card thickness have been fixed, don't adjust it.
- 3) After placing card into stacker, make sure iron block on cards

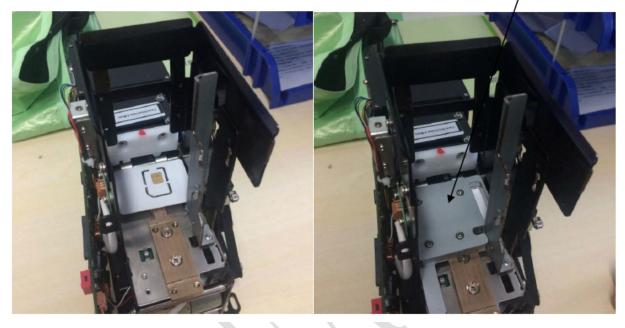


# 2 in 1 card dispenser adjustment

### 1.Accept half-size card

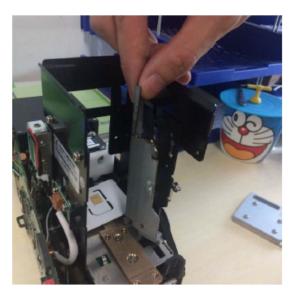
2.Put iron on the card

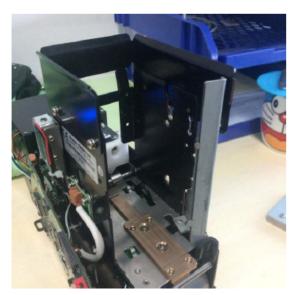
iron



3.Extend the shifting board

4.Ready to dispense full-size card





<b>— R</b>	SPECIFICATION	Model No.	CRT-591-B
	SPECIFICATION	Date	2018/9/10
	0 1 0 .	Ver.	1.0
CREATOR	Card Dispenser	Page	10/12

5.Put full-size card on the stacker

6.Put iron on the stacker





### 10, Maintenance

After a long time usage, factors such as the machine's transportation mechanism wear and tear, dust on sensor, magnetic head, IC card contact will influence the performance of the machine, and hence it should be maintained on a constant basis.

Detail maintenance instruction is as following:

① Use a cleaning card or a cloth with alcohol to clean the card dispensing mechanism and card read/write mechanism. (To open the card read/write components please refer to chapter 12"Cautious")

<sup>(2)</sup> Pick out greasy card and deformed card, and clean the greasy card with soft cloth tapped cleaning alcohol. If the deformed card is unable to restore, it is necessary to replace this deformed card with normal one.

③ Keep card pre-empty sensor clean by soft cloth with cleaning alcohol.

④ Sensor maintenance: Use the sensor status inquiry command to examine sensors' status. When the reader is running under good condition, all its 10 sensor groups' status are 'OFF'; If any sensor group's status is 'ON', it is possible to be covered by dust; You can try to clean the sensor, especially this sensor group.

⑤ IC card contact maintenance: Clean the IC card contact if there is any dirty on them.

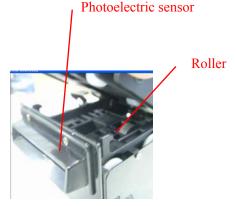
<sup>(6)</sup> Transportation roll maintenance: Transportation roll should be check regularly and clean by cleaning alcohol if there is any dirty.

( and the second	SPECIFICATION	Model No.	CRT-591-B
		Date	2018/9/10
	Card Dispenser	Ver.	1.0
CREATOR		Page	11/12

### 11、 Cautions

- 1) Before maintenances, make sure the power connection is cut off in order to avoid machine damage.
- 2) Pay attention to DIP specification, wrong DIP number will bring about no work and unknown status.
- 3) Prohibit warm plug in and out of connector. Warm plug will cause circuit damage.
- Keep machine non-greasy, oily cohesive will deadly influence the performance of machine.
- 5) Pay attention to the IC card direction in stack.
- 6) Pay attention to the power off sequence, cut off power first and then cut off communication cable.
- 7) To open/close the card read/write component
  - ① Open the cover of read/write component: Push the button on the both side of machine (See picture). And make sure the button is push to the end.
  - 2 Pull up the cover of read/write component and clean the rubber wheel, photoelectric sensor and IC card contact.
  - ③ Restore the cover of read/write component: Push the button on the both side of machine (See picture4) and pull down the cover to original place and loose your hand. Make sure the cover is in the correct place.





Button

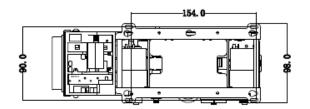
Picture4. To open RF/IC card component

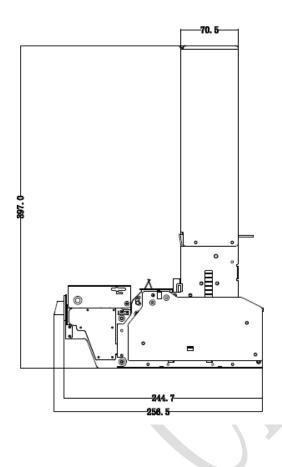
8) Trouble shooting

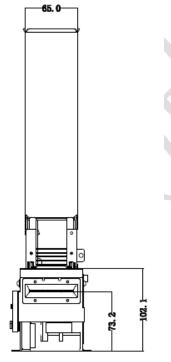
Once the card dispenser has an error such as blocking, you must use the reset command to clear the error flag before executing other commands.

	SPECIFICATION	Model No.	CRT-591-B
		Date	2018/9/10
	Card Dispenser	Ver.	1.0
CREATOR		Page	12/12

12、 Structural outline drawing and appendix







V