

# Software Information Sheet



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## General Information

<b>Model Name:</b>	WBA-22/23/24/25-SS/SU/SH/ SS2/SH2/SU2/SS3/SH3/SU3				<b>SW.Req. No.</b>		G08-133-02	
<b>SW. Name:</b>	WBA-22/23(RUS)-SS ID-003				<b>Date:</b> (mm,dd,yyyy)	09.10.2008	<b>Rev:</b>	B1
<b>SW. Version:</b>	V2.48-35				<b>Note:</b>	---		
<b>Country (Code):</b>	Russia(RUS)				<b>Guide:</b>	Type:2(70m)		
<b>Currency:</b>	Rubles				<b>Check Sum:</b>	472B		
<b>Direction:</b>	4Way				<b>CRC (seed= 0000):</b>	8343		
<b>Denomination: Years &amp; MRI Ident # 66<sup>th</sup> Edition</b>	<b>Denomi.</b>	<b>Printed</b>	<b>Issued</b>	<b>MRI#</b>	<b>Denomi.</b>	<b>Printed</b>	<b>Issued</b>	<b>MRI#</b>
	10	1997		RUB10.1	500	1997		RUB500.1
		1997 (2004)		RUB10.2		1997 (2004)		RUB500.2
	50	1997		RUB50.1	1000	1997		RUB1000.1
		1997 (2004)		RUB50.2		1997		RUB1000.2
	100	1997		RUB100.1	5000	2006		RUB5000.1
		1997 (2004)		RUB100.2				
<b>Acceptance Rate:</b>	No less than 90%							
<b>ACCLOAD Program:</b>	New ACCLOAD V1.20							
<b>ICB:</b>	N/A.							
<b>Barcode Ticket:</b>	Accepts JCM specified barcode tickets.							
<b>EPROM: (WBA-23/25)</b>	4 M bit, 90 nanosecond data access, or faster. ST Part M27C4001-90 or equivalent							
<b>Modifications:</b>	<b>V2.00-30 → V2.48-35</b>							
Validation:	1. Added countermeasures against counterfeit 50 Ruble notes.							
Operation:	1. In the previous software when a plastic card is inserted, it could cause a jam in the WBA. This has been corrected in this version. 2. Changed the software so that the Bar Sensor will be lit only in the ACCEPTING status. (In the previous version, the Bar Sencor was lit even in the IDLING status.) 3. Changed the limit value of the black reflection level in the auto-calibration mode from 1.5V to 1.7V 4. Support the New ACCLOAD. 5. Added the anti-fishing countermeasures of the same level as the WBA-22/23-SS-EUR5 ID-003 V2.34-30 software.							
Interface:	1. Added the Nearly Full function. 2. In case an abnormal communication sequence appears, communication termination with host controller will be executed.							
<b>Modifications:</b>	<b>V1.43-30 → V2.00-30</b>							
Validation:	1. Add countermeasures against 50 Ruble counterfeits.							
Operation:	1. The pushed home sensor is monitored more closely during the push operation. (WBA will enter an error state if any abnormality is detected during this operations.)							
Interface:								
<b>Modifications:</b>	<b>V1.42-30 → V1.43-30</b>							
Validation:	1. Added the 5,000 (‘06) Ruble banknotes acceptance. 2. Added the ABLC. 3. Added the doubled (stacked) barcode tickets detection measure. 4. Added the barcode ticket UP or DOWN detection.							
Operation:	1. Support the New ACCLOAD (V1.11).							
Interface:								

<b>Modifications:</b>	V1.41-30 → V1.42-30
Validation:	1. Added the countermeasures against the half-fake 100 ('04) Ruble note.
Operation:	
Interface:	
<b>Memo:</b>	

## Dip Switch Settings

#	Dip Switch		
1	OFF	Setting OFF	
	ON	Setting OFF	
2	OFF	5000	ACCEPT
	ON	5000	INHIBIT
3	OFF	10	ACCEPT
	ON	10	INHIBIT
4	OFF	50	ACCEPT
	ON	50	INHIBIT
5	OFF	100	ACCEPT
	ON	100	INHIBIT
6	OFF	500	ACCEPT
	ON	500	INHIBIT
7	OFF	1000	ACCEPT
	ON	1000	INHIBIT
8	OFF	Setting OFF	
	ON	Setting OFF	

# ID-003 Data Setting specification

## VERSION DATA

SW. Version	W(RUS)-22-SS ID003-04V248-35 10SEP08 8343
Boot Version	B11 or B12

## ESCROW DATA

Code	Denomination
61h	Reserved
62h	Reserved
63h	10
64h	50
65h	100
66h	500
67h	1000
68h	5000

## CURRENCY ASSIGN DATA

Code	Country	Denomination	Exp.
61h	00h	00h	00h
62h	00h	00h	00h
63h	27h	01h	01h
64h	27h	05h	01h
65h	27h	0Ah	01h
66h	27h	32h	01h
67h	27h	64h	01h
68h	27h	32h	02h

## ENABLE/DISABLE DATA

DATA bit	Data 1	Data 2
0	Reserved	Reserved
1	Reserved	Reserved
2	10	Reserved
3	50	Reserved
4	100	Reserved
5	500	Reserved
6	1000	Reserved
7	5000	Reserved

0: Enable 1: Disable (Default: 0300h)

## SECURITY DATA

DATA bit	Data 1	Data 2
0	Reserved	Reserved
1	Reserved	Reserved
2	10	Reserved
3	50	Reserved
4	100	Reserved
5	500	Reserved
6	1000	Reserved
7	5000	Reserved

0: Normal 1: Security Level high (Default: 0000h)

## DIRECTION DATA

DATA bit	Direction	Sample demonination:100
0	'A' Direction	
1	'B' Direction	
2	'C' Direction	
3	'D' Direction	
4	Not used	
5	Not used	
6	Not used	
7	Not used	

0: Not Inhibit 1: Inhibit (Default: 00h)

## OPTIONAL FUNCTION DATA

DATA bit	Data 1	Data 2
0	Hanging Function[01]	Not used
1	Power Recovery [02]	Not used
2	Not used	Not used
3	Not used	Not used
4	Not used	Not used
5	Nearly Full [05]	Not used
6	Not used	Not used
7	Not used	Not used

0: Disable 1: Enable (Default: 0000h)

## BAR CODE FUNCTION DATA

	Code	Function
Data 1	01h	Barcode type (interleaved 2 of 5)
Data 2	12h	Character length (18 char)

### [01] Hanging Function

Rejection of the bill is completed with the end of the bill kept remaining in the acceptor.  
(To prevent dropping of the bill)

### [02] POWER RECOVERY

Limited to the case where power up status is (POWER UP WITH BILL IN STACKER)

with power supply off while ACCEPTOR is in (STACKING) status, (VEND VALID) is outputted in case initializing is completed normally.

Since SETTING STATUS becomes DEFAULT 0000H by power supply off, it is necessary to conduct setting without fail after (RESET) command is transmitted.

[05] Nearly Full

The Nearly Full function will be enabled when “1” is set in the OPTIONAL FUNCTION DATA Bit 5.

The “NEARLY FULL” status will be sent when the quantity of the stored notes exceeds the specified amount (425) as a response to the Status Request only after the “STACKED” status. The “IDLING” status will be sent to the next Status Request.

Until the quantity of the stored notes is initialized, the “NEARLY FULL” status will be reported when the note is put in the cash box.

The quantity of the stored notes will be initialized when the cash box is removed while the power is on.