Software Information Sheet

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General Information

Model Name:	TBV-100-FSH/GSH/FLD/GLD/ASH	**SW. Req. No.**	C19-0320-01	G19-177	
SW. Name:	TBV-100-FSH M06-003	**Date:** (mm,dd,yyyy)	08.23.2019	**Rev:**	A1
SW. Version:	**V1.32-82**	**Note:**	-		
Country (Code):	United States of America, European Union, Russia, Belarus (USA/EUR/RUS/BLR) (M06)	**Guide:**	None		
Currency:	Dollar, Euro, Ruble, Rubel	**Check Sum:**	5804		
Direction:	4Way	**CRC (seed= 0000):**	2BB1		

Denomination: Years&MRI Ident

MRI Bankers' Guide to Foreign Currency 93rd Edition.

RUB10.1 and RUB10.2 refer to MRI 81st Edition

RUS

Denomi.	Printed	Issued	MRI#	Denomi.	Printed	Issued	MRI#
10	'97	'04	RUB10.1	500	'97	'04	RUB500.2
10	'97	'04	RUB10.2	500	'97	'11	RUB500.3
50	'97	'98	RUB50.1	1000	'97	'01	RUB1000.1
50	'97	'04	RUB50.2	1000	'97	'04	RUB1000.2
100	'97	'98	RUB100.1	1000	'97	'10	RUB1000.3
100	-	'04	RUB100.2	2000	'17	'18	RUB2000.1
200	'17	'18	RUB200.1	5000	'97	'06	RUB5000.1
500	'97	'98	RUB500.1	5000	'97	'11	RUB5000.2

USA

Denomi.	Printed	Issued	MRI#	Denomi.	Printed	Issued	MRI#
1	'85～	-	USD1.1	20	'96～01	-	USD20.2
5	'90～92	-	USD5.1A	20	'04	-	USD20.3
5	'93～95	-	USD5.1B	50	'90～93	-	USD50.1B
5	'99～01	-	USD5.2	50	'96～01	-	USD50.2
5	'06	-	USD5.3	50	'04	-	USD50.3
10	'85～	-	USD10.1A	100	'88～	-	USD100.1A
10	'90～95	-	USD10.1B	100	'90～93	-	USD100.1B
10	'99～01	-	USD10.2	100	'96～06	-	USD100.2
10	'04	-	USD10.3	100	'09	-	USD100.3
20	'88～	-	USD20.1A	-	-	-	-
20	'90～95	-	USD20.1B	-	-	-	-

EUR

Denomi.	Printed	Issued	MRI#	Denomi.	Printed	Issued	MRI#
5	-	-	EUR5.1	50	'17	'17	EUR50.2
5	'13	'13	EUR5.2	100	-	-	EUR100.1
10	-	-	EUR10.1	100	'19	'19	EUR100.2
10	'14	'14	EUR10.2	200	-	-	EUR200.1
20	-	-	EUR20.1	200	'19	'19	EUR200.2
20	'15	'15	EUR20.2	500	-	-	EUR500.1
50	-	-	EUR50.1	-	-	-	-

BLR

Denomi.	Printed	Issued	MRI#	Denomi.	Printed	Issued	MRI#
5	'09 -	'16	BYN5.1A	200	'09	'16	BYN200.1
5	'19	'16	BYN5.1B	500	'09	'16	BYN500.1
10	'09 -	'16	BYN10.1A	-	-	-	-
10	'19	'16	BYN10.1B	-	-	-	-
20	'09	'16	BYN20.1	-	-	-	-
50	'09	'16	BYN50.1	-	-	-	-
100	'09	'16	BYN100.1	-	-	-	-

Acceptance Rate:	No less than 98%
ACCLOAD Program	ACCLOAD3 (Must use version V3.10 or later)
ICB	N/A.
Bar Ticket:	Accepts JCM specified barcode tickets.
Tool Suite	Must use version V1.44.0.1 or later
EPROM:	Flash ROM only (64Mbit)
Modifications:	**V1.31-80 ➔ V1.32-82**
Validation:	1. Update validation of USA and EUR to the latest level. 2. Improved acceptance rate of EUR20.1 3. Improve countermeasure against fake note of EUR20.1 4. Add recognition of BYN5.1B and BYN10.1B
Operation:	1. Fixed LED flash number when "no validation" testing in test mode.
Interface:	1. Fixed "Failure B1" on ID003 Boot interface.
Memo:	- The unit that has been calibrated with the V0.xx-15 or older must be re-calibrated after this software is downloaded. - <u>This software supports the Country Type Setting Command.</u> - The default currency is Russian Rubles. - When the transport unit that has been used with FSH/GSH is used with FLD/GLD, the positioning sensor must be adjusted before using. This adjustment is needed also when the transport unit used with FLD/GLD is used with FSH/GSH.

Dip Switch 1 or 3 Settings

#	Dip Switch	
1	OFF	Setting OFF
	ON	Setting OFF
2	**OFF**	**Normal Operation**
	ON	**Return Banknote after previous note is rejected**
3	OFF	Setting OFF
	ON	Setting OFF
4	OFF	Setting OFF
	ON	Setting OFF
5	OFF	Setting OFF
	ON	Setting OFF
6	OFF	Setting OFF
	ON	Setting OFF
7	OFF	Setting OFF
	ON	Setting OFF
8	OFF	Setting OFF
	ON	Setting OFF

Dip Switch 2 Settings

#	Dip Switch	
1	OFF	Setting OFF
	ON	Setting OFF
2	OFF	Setting OFF
	ON	Setting OFF
3	OFF	Setting ON
	ON	Setting ON
4	OFF	Setting OFF
	ON	Setting OFF

Dip Switch 4 Settings

#	Dip Switch				
1	OFF	Setting OFF			
	ON	Setting OFF			
2	OFF	Setting OFF			
	ON	Setting OFF			
3	OFF	**Interface Select**	**3**	**4**	**Interface**
	ON		OFF	OFF	RS232C
4	OFF		ON	OFF	Photo Coupler
	ON		OFF	ON	Reserve

Dip Switch 5 Settings

#	Dip Switch	
1	OFF	**RS232C Select**
	ON	**Photo Coupler Select**

Dip Switch 6 Settings

#	Dip Switch	
1	OFF	Setting OFF
	ON	Setting OFF
2	OFF	Setting OFF
	ON	Setting OFF

TEST MODE (Dip Switch 1 or 3 Settings)

#	Dip Switch							
6	ON	EUR	OFF	USA	ON	BLR	OFF	RUS
7	OFF		ON		ON		OFF	

ID-003 Data Setting specification

VERSION DATA

SW. Version	T(M06)-100-FSH ID003-05V132-82 23AUG19 2BB1

ESCROW DATA

Code	Denomination			
	RUS	USA	EUR	BLR
61h	**RUB200**	**USD1**	Reserved	-
62h	**RUB2000**	Reserved	**EUR5**	**BYN5**
63h	**RUB10**	**USD 5**	**EUR10**	**BYN10**
64h	**RUB50**	**USD 10**	**EUR20**	**BYN20**
65h	**RUB100**	**USD 20**	**EUR50**	**BYN50**
66h	**RUB500**	**USD 50**	**EUR100**	**BYN100**
67h	**RUB1000**	**USD 100**	**EUR 200**	**BYN200**
68h	**RUB5000**	Reserved	**EUR 500**	**BYN500**

CURRENCY ASSIGN DATA

RUS				**USA**				**BLR**			
Code	Country	Denomination	Exp.	Code	Country	Denomination	Exp.	Code	Country	Denomination	Exp.
61h	**27h**	**14h**	**01h**	**61h**	**01h**	**01h**	**00h**	61h	00h	00h	00h
62h	**27h**	**14h**	**02h**	62h	00h	00h	00h	**62h**	**68h**	**05h**	**00h**
63h	**27h**	**01h**	**01h**	**63h**	**01h**	**05h**	**00h**	**63h**	**68h**	**0Ah**	**00h**
64h	**27h**	**05h**	**01h**	**64h**	**01h**	**0Ah**	**00h**	**64h**	**68h**	**14h**	**00h**
65h	**27h**	**0Ah**	**01h**	**65h**	**01h**	**14h**	**00h**	**65h**	**68h**	**32h**	**00h**
66h	**27h**	**32h**	**01h**	**66h**	**01h**	**32h**	**00h**	**66h**	**68h**	**64h**	**00h**
67h	**27h**	**64h**	**01h**	**67h**	**01h**	**64h**	**00h**	**67h**	**68h**	**14h**	**01h**
68h	**27h**	**32h**	**02h**	68h	00h	00h	00h	**68h**	**68h**	**32h**	**01h**

EUR			
Code	Country	Denomination	Exp.
61h	00h	00h	00h
62h	**E0h**	**05h**	**00h**
63h	**E0h**	**0Ah**	**00h**
64h	**E0h**	**14h**	**00h**
65h	**E0h**	**32h**	**00h**
66h	**E0h**	**0Ah**	**01h**
67h	**E0h**	**14h**	**01h**
68h	**E0h**	**32h**	**01h**

ENABLE/DISABLE DATA

DATA bit	RUS		USA	
	Data 1	Data 2	Data 1	Data 2
0	**200**	Reserved	**1**	Reserved
1	**2000**	Reserved	Reserved	Reserved
2	**10**	Reserved	**5**	Reserved
3	**50**	Reserved	**10**	Reserved
4	**100**	Reserved	**20**	Reserved
5	**500**	Reserved	**50**	Reserved
6	**1000**	Reserved	**100**	Reserved
7	**5000**	Reserved	Reserved	Reserved
DATA bit	**EUR**		**BLR**	
	Data 1	Data 2	Data 1	Data 2
0	Reserved	Reserved	Reserved	Reserved
1	**5**	Reserved	**5**	Reserved
2	**10**	Reserved	**10**	Reserved
3	**20**	Reserved	**20**	Reserved
4	**50**	Reserved	**50**	Reserved
5	**100**	Reserved	**100**	Reserved
6	**200**	Reserved	**200**	Reserved
7	**500**	Reserved	**500**	Reserved

RUS 0: Enable 1: Disable (Default: **00FFh**)
USA 0: Enable 1: Disable (Default: **82FFh**)
EUR 0: Enable 1: Disable (Default: **01FFh**)
BLR 0: Enable 1: Disable (Default: **01FFh**)

SECURITY DATA

DATA bit	RUS		USA	
	Data 1	Data 2	Data 1	Data 2
0	Reserved	Reserved	Reserved	Reserved
1	Reserved	Reserved	Reserved	Reserved
2	Reserved	Reserved	Reserved	Reserved
3	Reserved	Reserved	Reserved	Reserved
4	Reserved	Reserved	Reserved	Reserved
5	Reserved	Reserved	Reserved	Reserved
6	Reserved	Reserved	Reserved	Reserved
7	Reserved	Reserved	Reserved	Reserved
DATA bit	**EUR**		**BLR**	
	Data 1	Data 2	Data 1	Data 2
0	Reserved	Reserved	Reserved	Reserved
1	Reserved	Reserved	Reserved	Reserved
2	Reserved	Reserved	Reserved	Reserved
3	Reserved	Reserved	Reserved	Reserved
4	Reserved	Reserved	Reserved	Reserved
5	Reserved	Reserved	Reserved	Reserved
6	Reserved	Reserved	Reserved	Reserved
7	Reserved	Reserved	Reserved	Reserved

RUS 0: Normal 1: Security Level high (Default**: 0000h**)
USA 0: Normal 1: Security Level high (Default**: 0000h**)
EUR 0: Normal 1: Security Level high (Default**: 0000h**)
BLR 0: Normal 1: Security Level high (Default**: 0000h**)

DIRECTION DATA

DATA bit	Direction	Sample: USA
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 use
1	Power Recovery [02]	Not use
2	Not use	Not use
3	Not use	Not use
4	Not use	Not use
5	Nearly Full [20]	
6	Entrance Sensor Event (BNF only)[40]	Disable Pullback Feature [40]
7	Not use	Not use

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)
	FFh	Character Length (18 to 28 char)

BOOK MARK COMMAND

Code	Function
4Ah	Sending the Bookmark Command will enable the acceptor to accept a bookmark.

DATA 1

[01] Hanging Function

Bill rejection finishes with the end of the bill held in the acceptor (to prevent the bill from falling). GSH, GLD, ASH support.

[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.

[20] Nearly Full Function

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 amounts as a response to the Status Request only after the "STACKED" status. The "IDLING" status will be sent to the next Status Request.

[40] Entrance Sensor Event

The "Entrance Sensor Event" will be enabled when "1" is set in the OPTIONAL FUNCTION DATA Bit 6. By follow description of function.

When the Entrance Sensor detects a note while the ACCEPTOR is in the DISABLE (INHIBIT) Status, the insertion of the note will be reported to the CONTROLLER in the Status Response from the ACCEPTOR. This function will be included in the OPTIONAL FUNCTION. When the setting is enabled, a data byte [one byte] will follow the DISABLE (INHIBIT) Status of the ACCEPTOR, and the status of the Entrance Sensor (ON or OFF) will be reported to the CONTROLLER in the lower byte.

This setting will be cleared when the ACCEPTOR is powered off, or the Reset Command from the CONTROLLER is received.

For more details, please refer to "ID-003 Entrance Sensor Status Report Function Specification.doc".

(For BNF operation only)

DATA 2

[40] Disable Pullback Feature

The Pullback monitoring will be disabled when OPTIONAL FUNCION DATA2 BIT 6 is set to "1". When disabled security against manipulation is lowered.