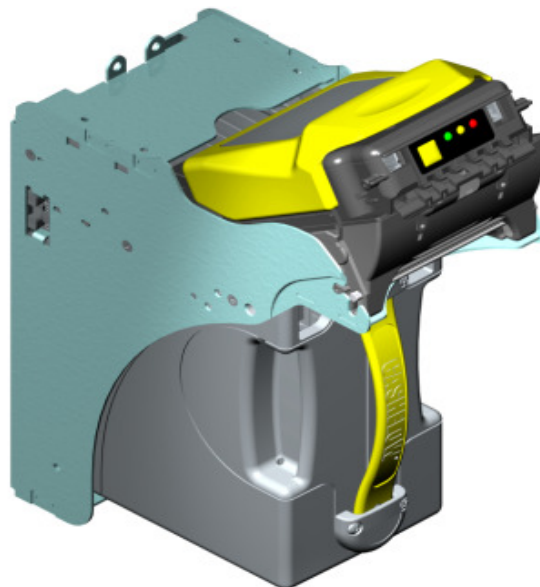




# MEI Cashflow SC83® / SCN83® Installation & Operation Manual



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MEI UK International Ltd  
 Unit 51/52, Suttons Business Park  
 Suttons Park Avenue, Earley, Redding  
 RG6 1AZ, UK  
 Phone: +44 (0) 118 938 1100  
 Fax: +44 (0) 118 919 7878

# EC Declaration of Conformity

Document Number: 20199-003110005-EC /G7

We, MEI, certify that the product described is in conformity with the following Directive(s):

- 2004/108/EC Electromagnetic Compatibility Directive (as amended)**
- 2006/95/EC Low Voltage Directive (as amended)**
- 2002/95/EC Restriction of Hazardous Substances Directive (as amended)**

Description of product: *Cashflow SC83 Series Note Acceptors*

The product has been assessed by application of the following standards:

- |                     |             |  |
|---------------------|-------------|--|
| <b>EN 55022</b>     | <b>1998</b> | <b>Information Technology equipment-Radio disturbance characteristics-Limits and methods of measurement.</b> |
| <b>BS EN 55024</b>  | <b>2010</b> | <b>Information Technology Equipment - Immunity characteristics - Limits and methods of measurement.</b>      |
| <b>EN 60950-1</b>   | <b>2006</b> | <b>Information Technology Equipment - Safety - Part 1:Generic requirements.</b>                              |
| <b>EN 60335-1</b>   | <b>2002</b> | <b>Household and Similar electrical equipment appliances - Safety - Part1:General Requirements</b>           |
| <b>EN60335-2-82</b> | <b>2003</b> | <b>Part 2-82: Particular requirements for amusement machines and personal service machines.</b>              |

Signed... *Kreishald* .....

Title... *DIRECTOR* .....

Dated... *6/7/2011* .....

## National and International Standards Conformance

CashFlow® SC83 Series products operate at Safety Extra Low Voltage Level (SELV) as defined in EN60950 'Safety of Information Technology Equipment'. They may be designed into equipment complying with IEC60950/EN60950 'Safety of Information Technology Equipment'.

CashFlow® SCN83 Series products operate at Safety Extra Low Voltage Level (SELV) as defined in EN60335 'Safety of Household and Similar Electrical Appliances'. They may be designed into equipment complying with IEC60335/EN60335 'Safety of Household and Similar Electrical Appliances'.

CashFlow® SC83/SCN83 Series products are of Class 2 construction.

## Dangerous Environments

The CashFlow® SC83/SCN83 Series must not be operated in the presence of flammable gasses, fumes or water.

## Product Disposal

Do not dispose of any part of a CashFlow® SC83/SCN83 Series by incineration.

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MEI

Unit 51 - 52 Suttons Business Park

Suttons Park Avenue, Earley, Redding

RG6 1AZ United Kingdom

Internet: <http://www.meigroup.com>

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When installing the SC83XX into a host machine, turn off all power.  
When installing or removing the PROM observe all ESD precautions to prevent damage.

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# OVERVIEW

## Model Number

### CASHFLOW SC PN Architecture

The CASHFLOW SC model type table is shown below. Typically a string is encoded within each CASHFLOW SC identifying the model type to outside hosts/clients.

Product	Generation	Cassette Size	Bill Path Width	Family	Interface Option	Options	Description
SB							Stackerless (base)
SC							Secure cashbox
SE							Stackerless w/ extended transport

(none)	Legacy (gen 1-4)
N	Next generation

(none)	600-note cassette
M	900-note cassette
L	1,200-note cassette
XL	2,200-note cassette

66	66mm bill path (US)
76	76mm bill path (Canada)
83	83mm bill path (Int'l)
85	85mm bill path (UK)

0	Gaming downstacker
1	Gaming upstacker
2	Retail
3	4-way barcode (SC66)

1	RS-485
2	Netplex IGT specific
4	Optically isolated EBDS
7	RS-232
8	USB

A	SPC USB tri-port
B	BNF
E	EASITRAX Soft Count
G	GDS USB
N	No cashbox
O	Novomatic USB
P	Prom
R	Retail kit
RL	Retail kit w/ cassette lock
T	AWP cashbox (teeth)
U	IGT USB
V	Vault cashbox
W	EBDS/SPC USB (tri-port)
X	Deep cashbox
Y	EBDS/GSA USB (tri-port)

Note 1: Retail models ending in 21, 27, 28 do not incorporate a barcode sensor.

Note 2: EASITRAX model types will ultimately be available on most variants.

Note 3: Additional USB model types incorporating IGT-specific, GSA-specific and, potentially, MEI-specific protocols may be developed.

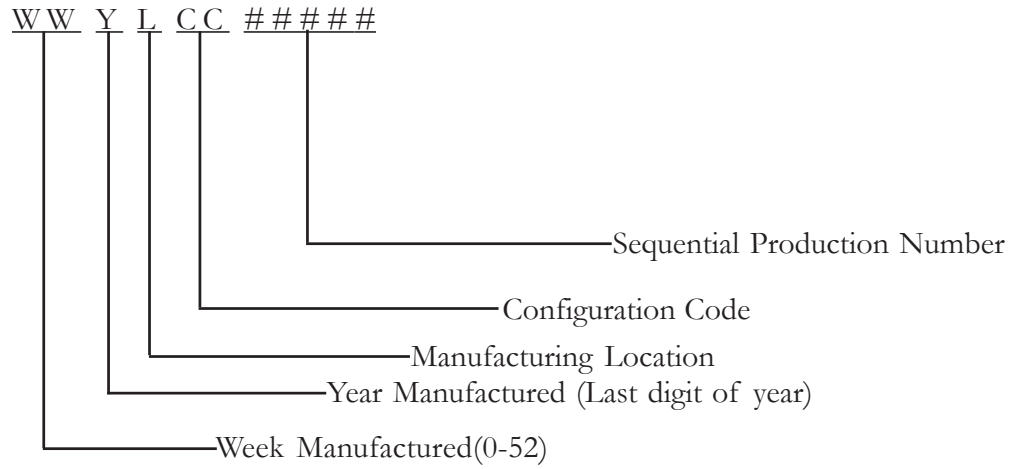
Note 4: V2.2 and ccTalk added with software (no need for additional model numbers).

Note 5: 4-way is an option (premium) for SC66 (3 in family column) next gen. It is the standard in SC83 models.

# OVERVIEW

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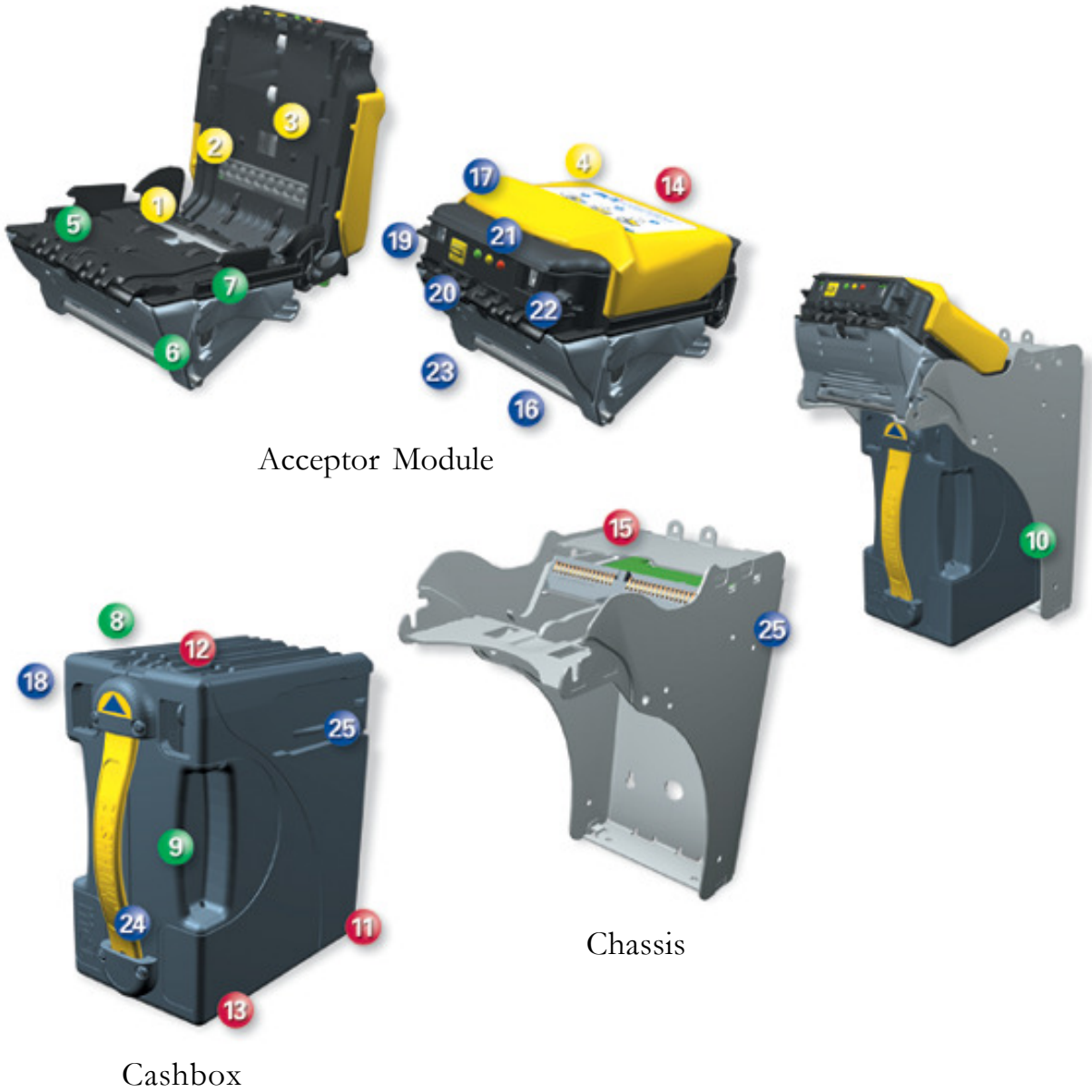
## Serial Number



# OVERVIEW

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## COMPONENTS



## OVERVIEW

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### Features

- 1 LIGHT BAR
- 2 LENSED RECEIVER
- 3 CUSTOM BAR-CODE READER
- 4 100 MHZ DSP PROCESSOR
- 5 EARLY NOTE PICK-UP
- 6 SMOOTH SEALED NOTE PATH
- 7 DIRECT ROLLER DRIVE
- 8 RIDGES MATE WITH ACCEPTOR
- 9 INTERNAL DIRECT ROLLER DRIVE ELEVATOR
- 10 SHORT NOTE PATH
- 11 DURABLE WELDED PLASTIC EXTERIOR
- 12 RECESSED PLASTIC GEARS
- 13 DUAL LOCK CAPABILITY
- 14 COMMON ACCEPTOR MODULES
- 15 PC STYLE EDGE CONNECTOR INTERFACE CARDS
- 16 ACCEPTOR RELEASE LATCH
- 17 NOTE PATH RELEASE
- 18 DISPUTE RESOLUTION WINDOW
- 19 ENTRY GUIDE & POWER MOUNTING
- 20 CONFIGURATION BUTTON - NOT USED ON SC83 SERIES
- 21 DIAGNOSTIC LEDS - SEE PAGE 24 FOR DETAILS
- 22 USB SERVICE PORT - SEE PAGE 17 AND FIGURE 2 FOR DETAILS.
- 23 ACCEPTOR USER INTERFACE
- 24 FLEXIBLE HANDLE
- 25 PASSIVE CASHBOX LATCHES



## OVERVIEW

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### Main Components of the CASHFLOW SC83® Bill Acceptor

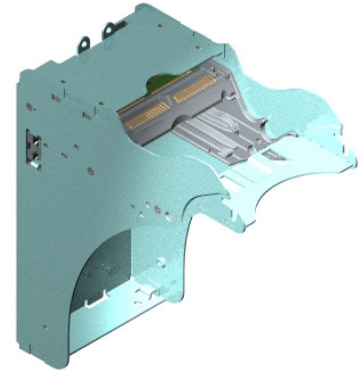
The CASHFLOW SC83® consists of three main components



Cashbox/LRC



Acceptor Module



Chassis

The Acceptor Module and Cashbox are interchangeable with other identical SC83 models.

### Bill Entry Guides for the CASHFLOW SC83®

Not all bill entry guides fit in every machine. Your choice regarding bill entry guides will depend on machine specifications. Below are two bill entry guides that we currently manufacture. For customers who prefer to tool their own bill entry guide, please contact our technical department.



Platform Bill Entry Guide



Universal Bill Entry Guide

### Power Requirements

Standby:	10 Watts
Acceptance:	Peak 30 Watts
Stacking: Peak:	70 Watts
Input Voltage:	+12-28 VDC

# INSTALLATION

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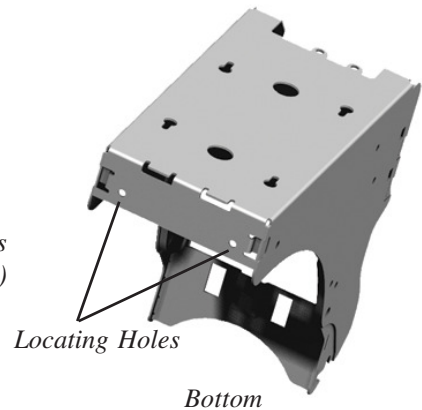
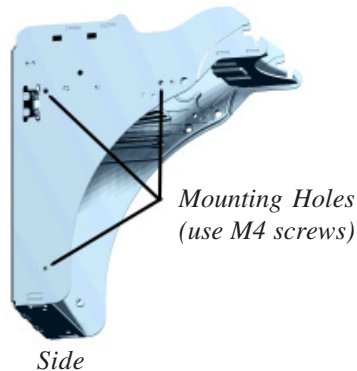
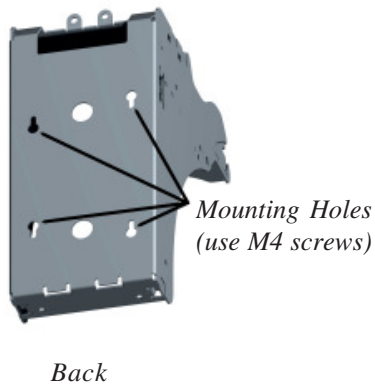
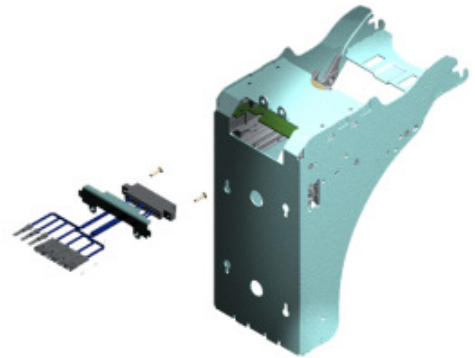
*Note: Always power down machine prior to Installation.*

*The cashbox does not lock to the chassis. When you remove the unit from the container or when the unit is not installed in the machine, you must never carry the bill acceptor by the handle of the cashbox. The cashbox may release causing the rest of the unit to fall and damage the chassis.*

*Note: Not suitable for use in areas where there could be direct contact with water jets.*

## Installing The Chassis

- Most models have a configuration-specific cable installed on the back of the chassis (see Interface Manual 002850103 for more details). Connect the cable from the chassis to the machine. Always dress all wires to avoid interference with any equipment operation.



*Note: If you have a custom configuration, you may need to contact our technical support group for assistance.*

- Once the connections are made, you will need to line up the locating holes on the bottom of the chassis with the machine's locating pins. Line up the mounting screw holes and insert M4 screws through several of the 10 mounting holes. There are three on each side of the chassis and four located on the back. Leave screws slightly loose until the bezel is mounted and aligned with the machine door closed. Screws must not exceed a 6mm depth through the mounting plate, otherwise they may interfere with the removable cashbox.

### Earth Grounding Considerations:

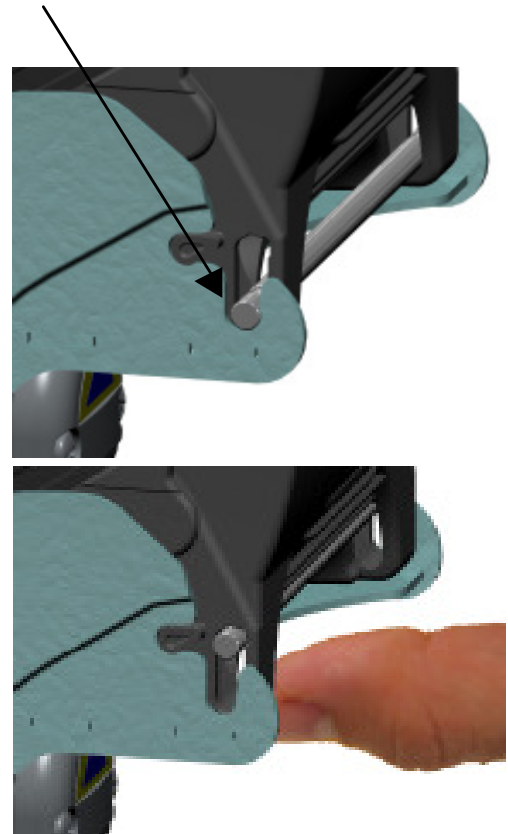
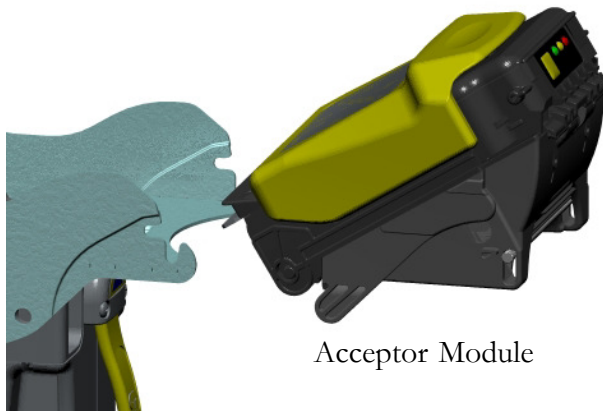
Use star washers when mounting the chassis via the rear mounting holes to ensure the chassis has a good electrical connection to the machine's mounting plate. When using the side mounting holes ensure the lower (upper if Up Stacker) mounting hole is used.

# INSTALLATION

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## Inserting and Removing the Acceptor Module

- Insert the Acceptor Module so that the release lever locks into place. The acceptor should be firmly seated to ensure proper engagement of the locking feature.
- To remove the unit, pull upwards on the release lever located on the front of the Acceptor Module and pull away from the chassis.

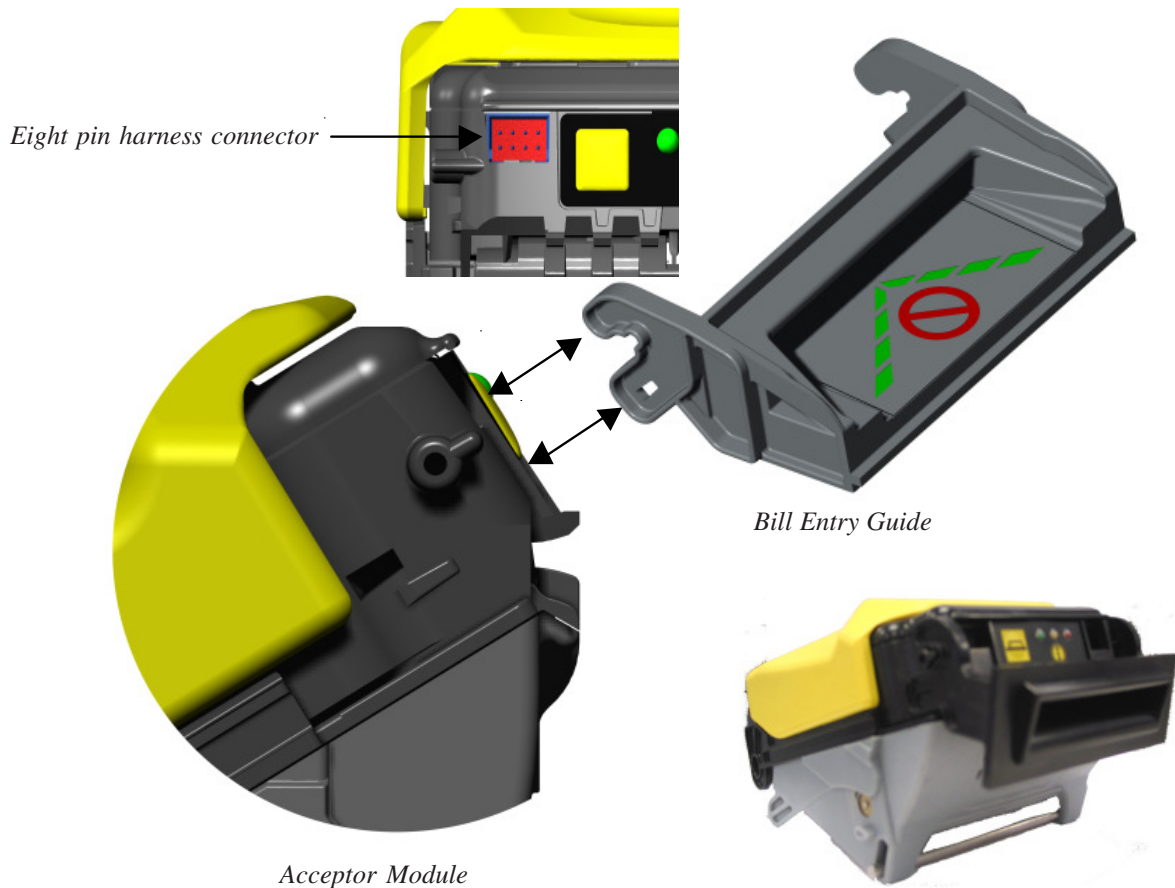


# INSTALLATION

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## Installing A Bill Entry Guide

- To install a bill entry guide, just slide it onto the Acceptor Module until it locks into place. No screws are required. If the bill entry guide has lights, you will have to first connect the harness from the bill entry guide to the eight pin connector located on the left hand side of the face of the Acceptor Module.
- Make sure that the bill entry guide is aligned so the machine door closes properly.



- Once the bill entry guide is aligned properly, remember to go back and tighten the screws on the chassis ( refer back to Chassis installation instructions).
- To remove a bill entry guide, slide a flat head screwdriver between the bill entry guide and the acceptor module. (as shown in the diagram on the right)

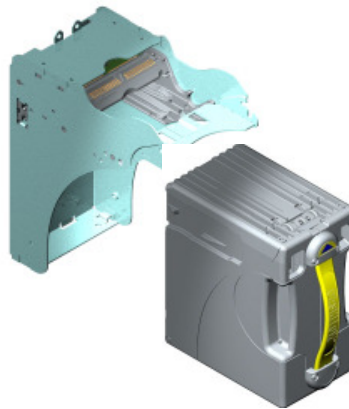


# INSTALLATION

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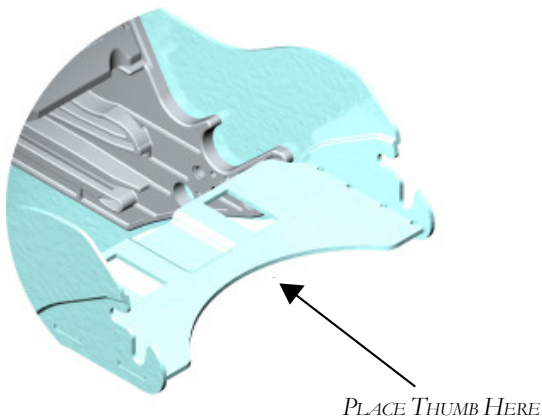
## Installing the Cashbox

- With the chassis mounted securely to the machine, you may now insert the cashbox into the chassis. The cashbox has slots on both sides that will guide it into the chassis. When you insert the cashbox, you will feel some resistance from the two springs inside the chassis. Make sure to insert the cashbox all the way in so that the rear of the cashbox is flush against the chassis wall.



## Removing the Cashbox

- When the note acceptor is installed in a machine, you just need to grab the yellow strap on the cashbox and pull firmly to release it. The cashbox does not lock on to the chassis.



- To remove the cashbox when the unit is not installed, grab on to the yellow handle and place your thumb on the chassis where indicated in this diagram. Placing your thumb at this location will give you sufficient leverage to remove the cashbox.

# INSTALLATION

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## Installing Locks on the Cashbox

The cashbox may be fitted with either one or two security locks. The product is designed to accept locks from a range of manufacturers including: -

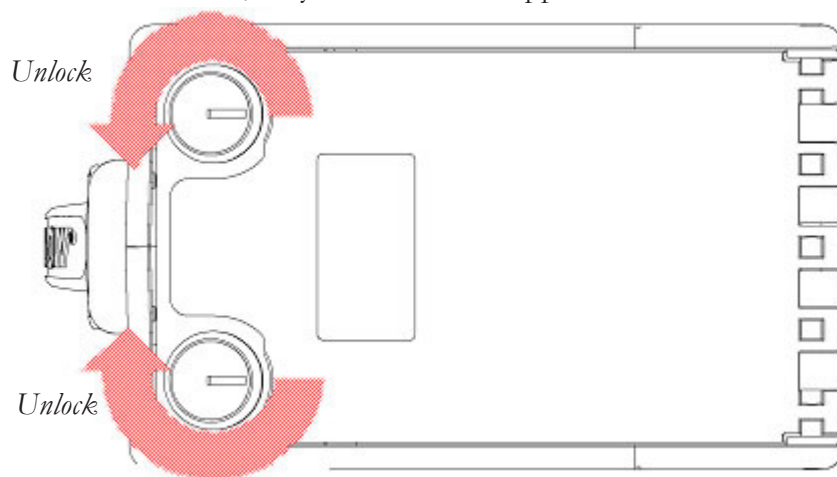
Medeco  
Kaba  
Abloy  
VSR  
Miwa  
Duo  
ILCO

Standard 5/8" and 1-1/8" formats are supported. There is a significant variety of lock designs, and spacer washers may be required for some lock types. Locking hasps are shipped with every cashbox. Contact MEI for cashbox lock specifications.

Locks vary greatly in price, security, keying policies, etc. The customer is responsible for selecting a lock with performance that is fit for the intended purpose. MEI does not test or endorse any specific brand of lock for security characteristics. For applications requiring NO locks, a non-secure "slam" latch is available: MEI Part Number 252260001P1/P12 NLC CASHBOX LATCH.

When only one lock is used, the remaining blank hole does not give access to the contents of the cashbox. However, some jurisdictions may require a blanking plug. Contact MEI for assistance in obtaining a suitable plug.

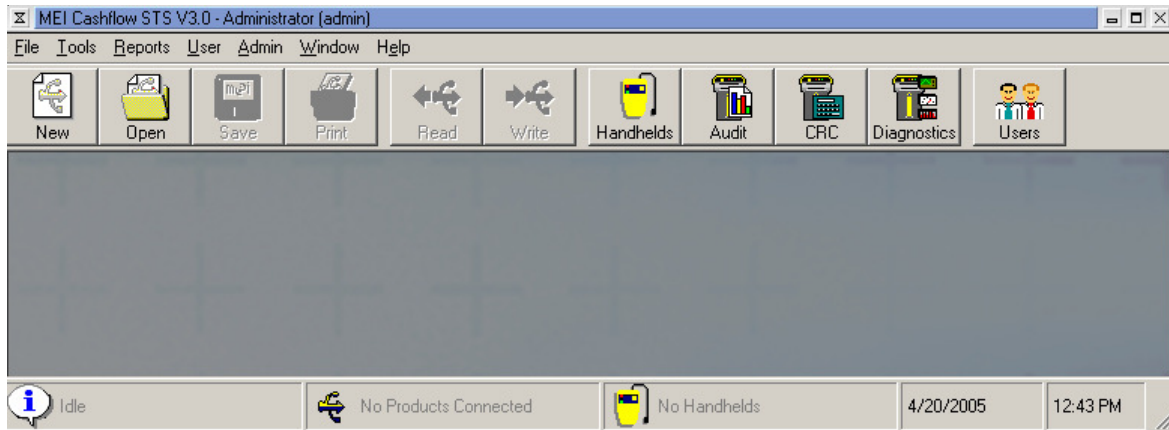
When two locks are installed, they must rotate in opposite directions. See the figure below.



*Bottom View of Cashbox*

# STS SUPPORT TOOL

---



STS Support Tool is software that is installed on your computer for use with the CASHFLOW SC83<sup>®</sup> Bill Acceptor. This software, together with the Portable Programming Module (PPM) handheld device supports the Bill Acceptor both in the field and the workshop.

**The enabled functions will depend on the type of license given to you, but may include:**



1) Handhelds – allows you to manage Handheld Devices, downloading files for Bill Acceptors, changing Audit settings and upgrading of Handheld firmware.



2) Configuration – allows you to load and save configuration to or from a file, and also a connected Bill Acceptor or Handheld device. This configuration includes Bill Acceptor Bootloader and Application Firmware, as well as basic Bill Acceptor and Bill Settings.



3) Audit – allows you to view stored, and retrieve new audit data from Bill Acceptor devices. Handhelds will automatically save retrieved audits to the database on connection.



4) CRC – allows you to perform CRC checks on a connected Bill Acceptor device.



5) Diagnostics – allows you to perform scripted or self-tests on a connected Bill Acceptor.

**More Detail information on this tool is offered in the STS User Manual. For additional information on this tool please contact your MEI representative.**

# UPDATING SOFTWARE

There are two ways of updating the software of a Cashflow SC83<sup>®</sup> note acceptor.\*

- 1) Via a hand held device called the Cashflow<sup>®</sup> Portable Programming Module (PPM).
- 2) By replacing the programmed PROM (Chip Change).\*

## Portable Programming Module

### Connecting the PPM to the CASHFLOW SC83<sup>®</sup>

1. Locate the two USB ports located on the top of the Portable Programming Module (See fig. 1 below).
2. Plug the type A end of your USB harness to the USB type A port of the **PPM**. Plug the type B end of the same USB harness into the USB type B port of the Cashflow SC83<sup>®</sup>. (see fig.2).

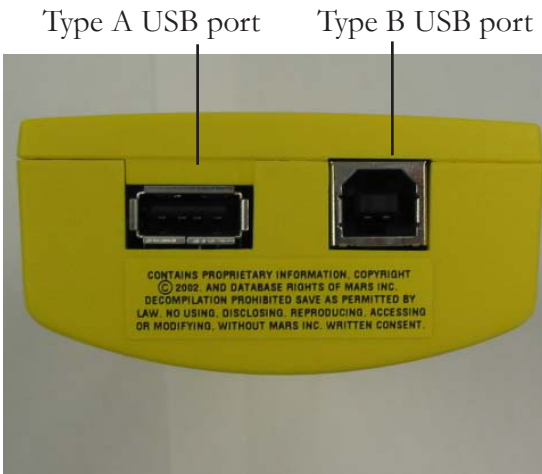


fig.1 (CPM)

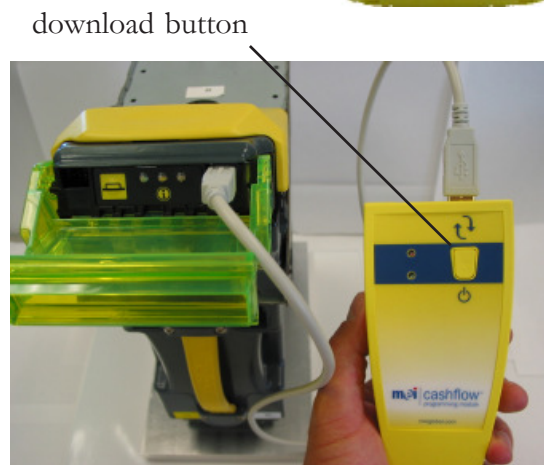


fig.2

***\*Note: Once a PROM (chip) is installed, the note acceptor can no longer be programmed via the programming module (PPM). Installation of a PROM will disable the ability of the programing module (PPM) to communicate with the note acceptor. Future software changes can only be made by replacing the PROM (chip change).***



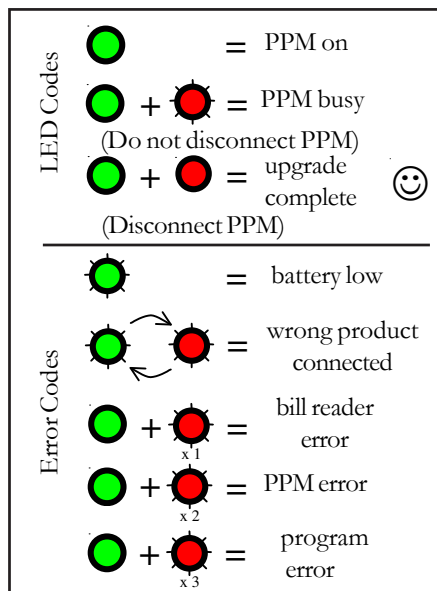
# UPDATING SOFTWARE

## CPM Downloading Procedure

1. After connecting the PPM to the Cashflow SC83<sup>®</sup> via the USB interface (refer to previous page illustration), you are now ready to start the download procedure.
2. Press the square download button located on the front of the PPM. (see fig.2 on previous page)
3. When downloading, the PPM will have a solid green and a flashing red LED, indicating the PPM is busy. Once the download is complete, the LED on the PPM will change to solid green and a solid red, indicating a successful download. The note acceptor will perform a run and stack and the the LEDs on the PPM will turn off.
4. Disconnect the USB harness from the Cashflow SC83<sup>®</sup> once the LEDs on the PPM are off.
5. Once download is complete, the Cashflow SC83<sup>®</sup>'s diagnostic LEDs will flash five times green continuously until communication between the note acceptor and the machine is re-established.

### Diagnostic Codes For The PPM

<b>Led Codes:</b>	solid green	= PPM on
	solid green + flashing red	= PPM busy
	solid green + solid red	= upgrade complete
<b>Error Codes:</b>	flashing green	= battery low
	alternating flashing green and red	= wrong product connected
	solid green + flashing red 1 time	= notes reader error
	solid green + flashing red 2 times	= PPM error
	solid green + flashing red 3 times	= program error



# UPDATING SOFTWARE

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## Replacing the programmed PROM (Chip Change)

This is not necessary for all applications, but only those that occur in jurisdictions requiring PROM to be installed.

Note: As soon as even one PROM has been installed into an acceptor module, the acceptor module will not be able to be re-programmed with a PPM. To re-program an acceptor module that has had a PROM installed, you **MUST** change or insert a new PROM (perform a chip change). When power is re-applied, the Acceptor module will be re-programmed from the PROM.

1. Remove the acceptor module from the chassis. (Instructions on how to remove it are on page 10).
2. Open the acceptor module by placing the palm of your hand on the front of the module and placing your fingers around the top of the yellow cover as shown in the diagram below. Pull the cover toward your hand and then lift up, opening the module head fully.



3. Remove the yellow cover from the acceptor module by turning the acceptor module so that the top of the cover is facing you. Wedge the tips of your fingers underneath the left and right front top corners of the yellow cover. Lift the cover's corners out and then back toward you to release the cover. The cover will be released once the cover has cleared the black ramps as shown in the diagram below.



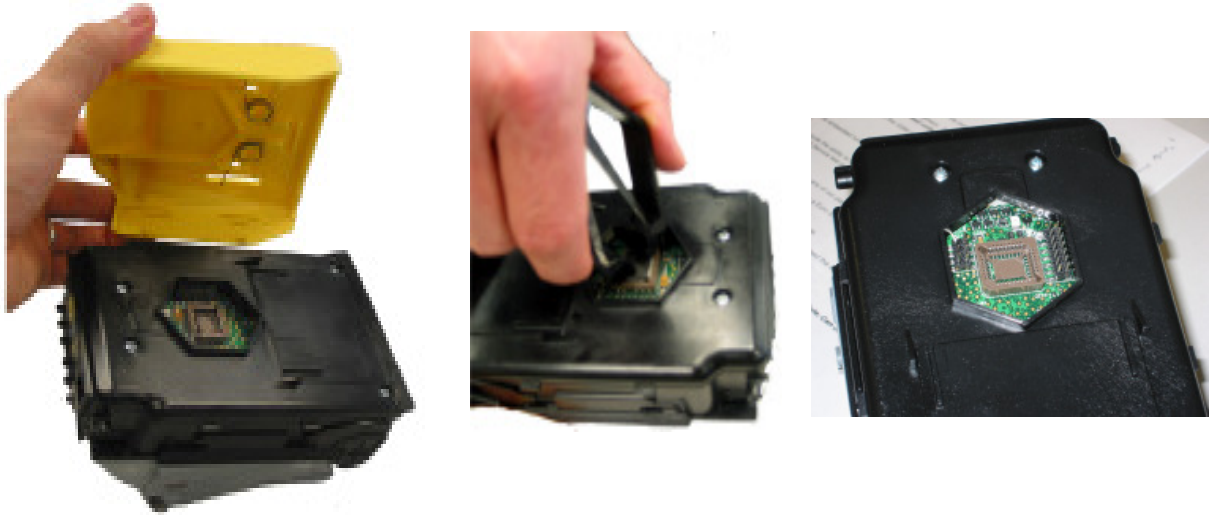
4. Once the yellow cover is released in the front, slide it back and remove it.

## UPDATING SOFTWARE

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### Replacing the programmed PROM (Continued).

5. You may now remove the PROM using a PLC puller.

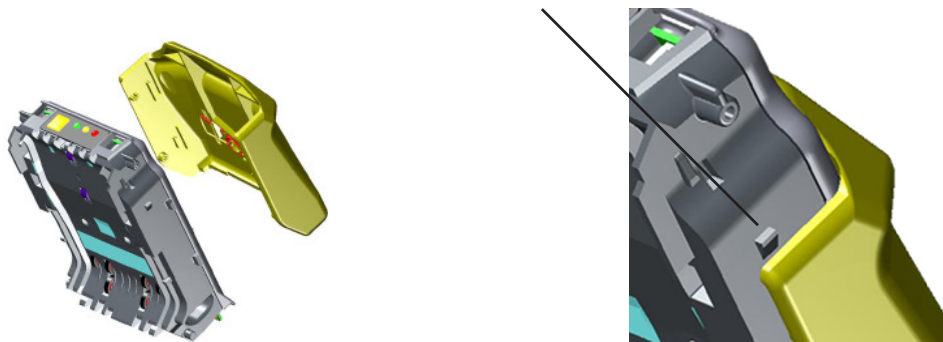


6. Insert the new PROM.

### Replacing the yellow cover

*Note: To install the yellow cover, the acceptor module must remain open.*

7. To re-install the yellow cover, align the cover back to the position shown below.



## UPDATING SOFTWARE

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### Replacing the programmed PROM (Continued).

8. Once in position, move the yellow cover forward (as if you were opening the acceptor module) until the cover locks into place.



9. Close the acceptor module and re-install it into the chassis.

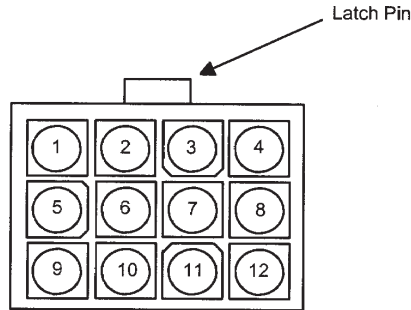
10. If the power is on, the unit will power up and perform a run and stack.

# HARNESSING AND CONNECTORS

## EBDS Interface Pin Out

*Note: Some Cashflow SC83® units will come with connectors that are “OEM-Specific.” Please refer to the host machine manual for pinout and connector information.*

Cashflow SC83® note acceptors with an EBDS Interface will have a harness with a 12-pin connector.



**12-Pin Chassis Docking Station Connector (End View)**

### SC8307 RS232 EBDS version

Connector Pin #	Wire Color	Signal	P2 pin
1	White	External Inhibit	10
2	Gray	Bezel LED drive	12
3	Not Populated	_____	_____
4	Yellow	Out of Service	11
5	Blue	Ground <sup>2</sup>	2
6	Pink	RS232 EBDS RXD <sup>1</sup>	L
7	Blue	Power - <sup>2</sup>	B
8	Purple	LED Supply	9
9	Not Populated	_____	_____
10	Not Populated	_____	_____
11	Green	Power +	1 & A
12	Tan	RS232 EBDS TXD <sup>1</sup>	K

**NOTES:** <sup>1</sup> RXD refers to input to the note acceptor. TXD is an output.

<sup>2</sup> Pins 7 and 5 are tied with a loop of wire in back of the 12-pin connector.

### SC8304 Opto Isolated EBDS version

Connector Pin #	Wire Color	Signal	P2 pin
1	White	Aux A	14
2	Gray	LED -	12
3	Red	V opt	7
4	Yellow	V ret	3
5	Blue	Ground <sup>2</sup>	2 & B
6	Pink	Isolated Reset	6
7	Black	Aux B	15
8	Purple	LED +	8
9	Brown	Isolated TXD <sup>1</sup>	4
10	Orange	Isolated RXD <sup>1</sup>	5
11	Green	Power +	1 & A
12	Not Populated	_____	_____

**NOTES:** <sup>1</sup> RXD refers to input to the note acceptor. TXD is an output.

<sup>2</sup> Pins 12 and 5 are tied with a loop of wire in back of the 12-pin connector.

## Non Committed Contacts

Depending on the desired interface, the Cashflow SC83® may be supplied with one or two sets of non committed contact leads for OEM use. The contacts are rated at 125VAC, 5AMPs Maximum.

Wire connections are as follows:

Black	OEM SW1 or 2 , COM
White	OEM SW1 or 2 , NC
Red	OEM SW1 or 2 , NO

## Maintenance

*Note: Maintenance should be performed by a properly trained service technician*

Periodic maintenance can improve the performance and extend the working life of a note acceptor. Additional attention may be required if the note acceptor becomes inoperable due to a jammed object or acceptance rates fall below normal.

## Cleaning the Acceptor Module

*Note: You must remove the acceptor module from the chassis to open the front sensor area. Forcing the note path open without removing the acceptor module from the chassis will damage the unit. Remember to turn off the machine (as per machine manufacturer) when performing any cleaning.*

- Remove the acceptor module from the chassis. (Instructions on how to remove it are on page 10).
- Open the acceptor module by placing the palm of your hand on the front of the module and placing your fingers around the top of the yellow cover as shown in the diagram to the right. Pull the cover toward your hand and then lift up, opening the module head fully.
- Clear the note path area of any foreign objects.
- Wipe the note path and sensor areas as needed with a soft damp cloth. For stubborn dirt, a small amount of mild non-abrasive soap may be added to the water before dampening the cloth. Make sure no streaks or residual soap remain on the note path.



*Note: Cashflow SC83® does not require the use of a cleaning card. Never use a petroleum-based product to clean this device! Petroleum based products will damage the note path. Mild non-abrasive soap is preferred over alcohol.*

## Calibration

The Cashflow SC83® series note acceptor was designed not to require calibration. Thus, the unit has no switch settings or calibration mode that allows a user to perform a calibration. Calibration may only be performed by MEI trained technicians.

# TROUBLESHOOTING

## Diagnostic Codes

- Red conditions - Hard Fault. One of the note acceptor components needs to be replaced.
- Yellow conditions - Soft Fault. The operator can correct the issue at the machine.
- Green conditions - No Fault. No problem with the note acceptor.

SC Advance & CASHFLOW SC DIAGNOSTIC CODES		
LED INDICATORS	STATUS	YOU NEED TO
Green (Left) Solid	Normal	Take no action
Green (Left) 1 Flash	Disabled by machine interface	Fix the machine condition (i.e. check BV connection)
Green (Left) Solid Yellow (Center) Solid	Normal & cashbox cleaning recommended	Replace with a clean cashbox
Green (Left) 1 Flash Yellow (Center) 1 Flash	Disabled by machine interface & cashbox cleaning required	Fix the machine condition (i.e. check BV connection) & replace with a clean cashbox
Yellow (Center) Solid	Cashbox not seated or not present	Reseat the cashbox
Yellow (Center) 1 Flash	Poor acceptance	Clean the acceptor head
Yellow (Center) 2 Flashes	Jam in acceptor	Clear the jam from the note acceptor
Yellow (Center) 3 Flashes	Jam in cashbox	Remove the acceptor head and clear jam in the cashbox
Yellow (Center) 4 Flashes Red (Right) 4 Flashes	Cashbox cleaning required	Replace with a clean cashbox
Yellow (Center) 8 Flashes Red (Right) 8 Flashes	Security timeout	Wait for timeout to expire
Red (Right) Solid	Cashbox full	Replace with an empty cashbox
Red (Right) 1 Flash	Acceptor hardware fault	Replace the acceptor head with a programmed spare
Red (Right) 2 Flashes	Interface board hardware fault	Replace the interface board
Red (Right) 8 Flashes	Note timeout	Wait for timeout to expire
Green/Yellow/Red (Left/Center/Right) All solid/All Flash	Unprogrammed unit/ generic unit (if using EASITRAX Soft Count see code below)	Program unit with a service tool

EASITRAX® Soft Count DIAGNOSTIC CODES		
LED INDICATORS	STATUS	YOU NEED TO
Red (Right) 4 Flashes	Asset number mismatch between machine and cashbox RF tag	Insert cashbox with matching or blank asset number in RF tag
Red (Right) 5 Flashes	RF tag not found	Insert cashbox with an RF tag
Red (Right) 6 Flashes	RF tag communication error	Reseat cashbox or replace with a cashbox with another RF tag
Red (Right) 7 Flashes	Asset number not found	Enter an asset number into the acceptor head using STS
Green/Yellow/Red (Left/Center/Right) All solid/All Flash	Checking tag status (if not using EASITRAX Soft Count, see SC Advance & CASHFLOW SC code above)	Wait 5 seconds to determine if Antenna PCB is found - if not found replace Antenna PCB

**Contact your local MEI Representative, Technical Support  
or MEI online at [www.meigroup.com](http://www.meigroup.com).**

# FREQUENTLY ASKED QUESTIONS

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1) What are the 3 parts that make up a CASHFLOW SC83® unit?

A CASHFLOW SC83® unit consists of an acceptor module, chassis and cashbox. For more information on these modules refer to page 8 of the CASHFLOW SC83® Installation & Operation Manual.

2) What purpose do the Cashbox arrows serve?

Arrows highlight a cashbox's position (upright or upside-down). Arrows provide a visual aid to crews who frequently arrange cashboxes by position to signal that they are full or empty.

3) What is the purpose of the USB and 8-pin connectors on the front of the Acceptor Module?

The USB connector is used to connect a PPM (Portable Programming Module) to a CASHFLOW SC83® unit. The PPM is used to download new software into a CASHFLOW SC83®. The purpose of the 8-pin connector is to provide appropriate drive voltage and enable signals in some lighted entry guides that get installed on the note acceptor. Some entry guides do not plug into the note acceptor, they plug directly to the host machine.

4) How is software updated in CASHFLOW SC83® Flash units and PROM units in the field?

Flash versions of CASHFLOW SC83® units can be updated in the field by using a PPM (Portable Programming Module). PROM versions of CASHFLOW SC83® units can be updated by replacing the PROM Chip that is located under the yellow acceptor latch on the acceptor.

5) What is a PPM (Cashflow Portable Programming Module) and how does it work?

A PPM is a yellow handheld device that is programmed by MEI and is used to download software into a CASHFLOW SC83® Flash units. The PPM consists of a yellow button, a red and green LED and 2 USB connectors. To use a PPM, first connect a USB harness to the front of a CASHFLOW SC83® unit then connect the other end to the PPM. Then press the yellow button and the PPM downloads new software into the CASHFLOW SC83® unit. The PPM uses the red and green LEDs to report its status and also gives error messages. For more information on the PPM refer to the PPM User Guide.



## FREQUENTLY ASKED QUESTIONS

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- 6) Can a PPM be used to update software for PROM CASHFLOW SC83® units?

No. A PPM can only be used to download software into Flash CASHFLOW SC83® units.

- 7) How can I tell the difference between a Flash and PROM CASHFLOW SC83® unit?

There are two ways to determine the difference:

- 1) The STS Program can be used to determine if a unit is a PROM or Flash.
- 2) You can remove the yellow cover on the acceptor. If a PROM is in the socket, it is a PROM unit. If no PROM is present, it is a Flash unit (Refer to pages 19 thru 21 on PROM units).

- 8) What are the MMI Diagnostic Error Codes (Green, Yellow and Red LED)?

Please refer to page 24 of this operation and maintenance manual for the MMI Diagnostic Error Codes.

- 9) Can a CASHFLOW SC83® unit be calibrated in the Field?

A CASHFLOW SC83® unit can not be calibrated in the field. The CASHFLOW SC83® is designed not to require field calibration. Calibration is only required after certain repairs that are done to a CASHFLOW SC83® unit. Therefore, only an approved CASHFLOW SC83® Service Center are trained to calibrate a CASHFLOW SC83® unit.

- 10) What are the differences among model #'s?

**SC6602** is a Flash unit made to interface to IGT's Netplex/SPC machines. It uses the IGT ID024 interface and SPC USB interface.

**SC6604** is a Flash unit made to interface to various machines. It uses MEI Opto Isolated EBDS Interface.

**SC6607** is a Flash unit made to interface to various machines. It uses MEI RS-232 EBDS Interfaces.

- 11) What are the differences among interfaces?

**MEI EBDS (Extended Bi-Directional Serial) Protocol** is a proprietary MEI protocol specification used to accomplish two-way serial communication between the bill acceptor and a host machine. It is not used for interfacing to IGT machines. Open collector EBDS uses opto isolated interface hardware. RS-232 EBDS uses RS-232 level interface hardware.

**IGT Netplex (Serial) Protocol** is proprietary IGT interface used to communicate between the IGT host machine and the Bill Acceptor.

**IGT SPC (USB) Protocol** is proprietary IGT interface used to communicate between the IGT host machine and the Bill Acceptor.

## FREQUENTLY ASKED QUESTIONS

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### 12) How is a CASHFLOW SC83® unit manufacturing date determined?

Locate the unit's serial number on the product label. The product label is located on the front of the acceptor module below the entry guide.

The first three digits of the serial number are the date code of the note acceptor. The first two digits indicate the week of the year it was made. The third digit indicates the year of manufacture.

For example: 082 means the unit was manufactured the 8th week of 2002.

### 13) How and how often should I clean the CASHFLOW SC83® unit?

The best way to clean a note acceptor is with mild, non-abrasive, diluted cleaning solution sprayed onto a soft cloth and not directly onto the note acceptor. Remove the acceptor and open the note acceptor's mouth. Wipe out the note path. Cleaning should be performed after two years, depending upon use, or if the unit's acceptance rate drops below normal.

### 14) Can I use alcohol to clean a CASHFLOW SC83® unit?

Alcohol is not the preferred cleaning solution (Refer to Question # 13.).

### 15) Can I use cleaning cards?

Not necessary! Cleaning cards offer simple preventative maintenance for some note acceptors. Since the CASHFLOW SC83® unit is easily opened, more effective cleaning can be accomplished with a soft, lint-free cloth and an appropriate cleaning solution. (Refer to Question # 13.)

### 16) What is the operating voltage for a CASHFLOW SC83® unit?

The operating voltage range is +12 to +28 VDC.

### 17) Does a CASHFLOW SC83® unit have dip switches?

A CASHFLOW SC83® unit does not have any dip switches. Notes can be enabled and disabled by using a configuration coupon. Contact MEI for more information.

### 18) What is the purpose of the red, black and white wires that come out of the main harness?

The wires are connected to an internally mounted switch and are used in conjunction with Player Tracking Systems to identify that a cashbox is present or that it has been pulled. Different combinations allow normally open or normally closed wiring.

## FREQUENTLY ASKED QUESTIONS

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### 19) How do I clear a note jam?

Remove the acceptor by pulling upwards on the release lever located on the front of the acceptor module and pull away from the chassis. Open the acceptor by sliding the yellow acceptor latch forward then clear the note jam.

### 20) Is it OK to swap Acceptors among my machines?

Same model Acceptors may be easily swapped (i.e. SC8302 to another SC8302). Verify that the following has been confirmed by the STS program **before installing back into the machine and applying power:**

- 1)The correct firmware is installed.
- 2)The correct BEG is installed for that particular machine.
- 3)The correct acceptor configurations are selected.(bills are enabled/disabled, proper BEG selected)

Different model acceptors (i.e. SC8304/07 to an SC8302 or vice versa) require, in addition to the changes above, a matching interface card (PCB).  
SC8304/07 require EBDS interface card (PCB).  
SC8302 require netplex interface card (PCB).

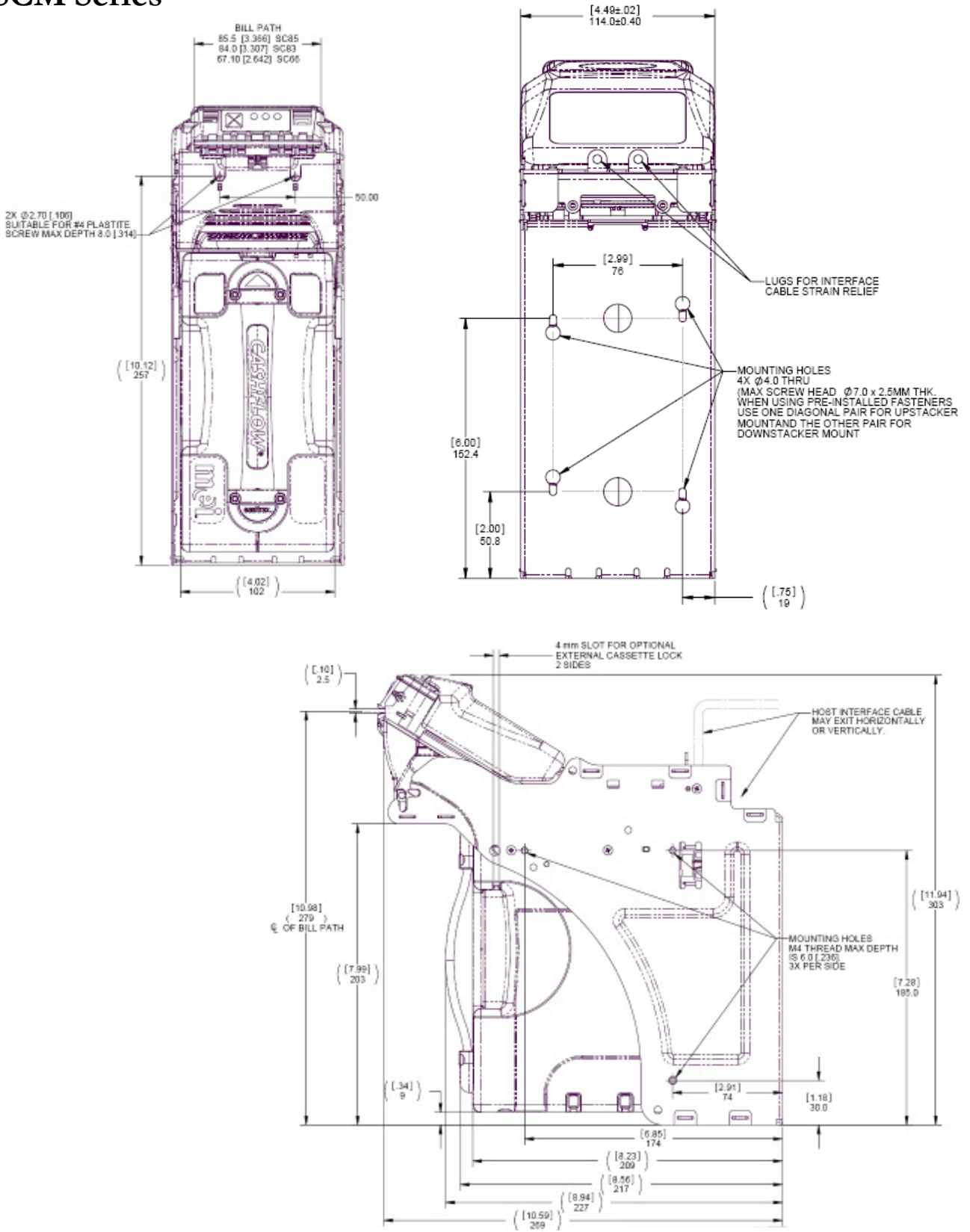
### 21) Who can I contact for service on a CASHFLOW™ SC83?

Visit our website at [www.meigroup.com](http://www.meigroup.com) for a list of service centers that repair the CASHFLOW SC83® .



# DRAWINGS

## SCM Series



# DRAWINGS

## SCL Series

