CASHFLOW® 952X / 952Xe / 9510

SELECTOR SYSTEMS

USER GUIDE

Rev: G2

PUBLISHED BY:

MEI CashFlow® 952X / 952Xe / 9510 Design Guide

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CashFlow® 952X / 952Xe / 9510 Selector Design Guide

This edition (March 2005) Printed in the USA.

Note: Your product may differ slightly from some of the illustrations in this document.

CE

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SAFETY

Warning

Before cleaning, servicing, removing or replacing CashFlow® units **ALWAYS SWITCH OFF** or **ISOLATE** the **ELECTRICITY SUPPLY** to the host machine.

Caution

This guide is recommended for use by personnel trained to carry out electrical installation.

Maximum Operating Voltage

Do not apply more than the voltage specified on the unit, and within the following:

Full Operating Voltage range:	+10V to +15V DC (+12V nominal) and 22V to 27V DC (24V nominal) for CF9510
Supply Voltage Ripple:	Within Vmin to Vmax up to 100Hz, <250mV pk - pk for Frequency>100Hz
Current consumption:	• Quiescent current: 100mA Max • Accept Gate: 800mA • Max current: 2.3A Max CF9524/CF9524e 3.0A Max CF9528/CF9528e

Dangerous Environments

Do not operate the unit in the presence of flammable gasses or fumes, or after the entry of fluid into the machine.

Disposal of Product

Always dispose of defective units according to local regulations.

Conformance to International Standards

When installed and operated according to the instructions provided for the particular unit, CashFlow® products meet the applicable international and national safety standards for any country in which they are used.

SAFETY

All electrical connections to the product must be rated according to the requirements for “Accessible SELV” circuits as defined in EN60335-1. The product is therefore suitable for use in a class 2 (non-earthed or non-grounded) appliance.

Overcurrent protection is not included in the product and should be provided as part of the host machine. The recommended fuse value at the rated supply of 12V is:

3A Slow blow (to EN60127)

Other protection methods may be used providing their overcurrent characteristics remain within the overall operating characteristics of the above fuse.

Warning: This is a class A product. In a domestic environment this product may cause radio interference, in which case the user may be required to take adequate measures.

PRODUCT IDENTIFICATION

MEI has manufactured coin mechanisms compatible with gaming and amusement machines for a number of years. Over this time the functionality of the range has been enhanced to match the market needs and whilst maintaining mechanical compatibility.

The products detailed in this handbook relate to the CashFlow® 952x Series. To ensure you have the right product for your application please read this section.

CashFlow® 9520/9520e/9510

- Supports 4 way Separator (optional, not available on the CF9510)
- Supports 8 way Separator (optional, not available on the CF9510)
- Available as Side Entry or Top Entry

CashFlow® 9524/9524e

- CashFlow® 9520/9520e plus
  - 4 way Separator, available as Side Entry, Top Entry or System Product

CashFlow® 9528/9528e

- CashFlow® 9520/9520e plus
- 8 way Separator, available as Top Entry or System Product

COMPATIBILITY

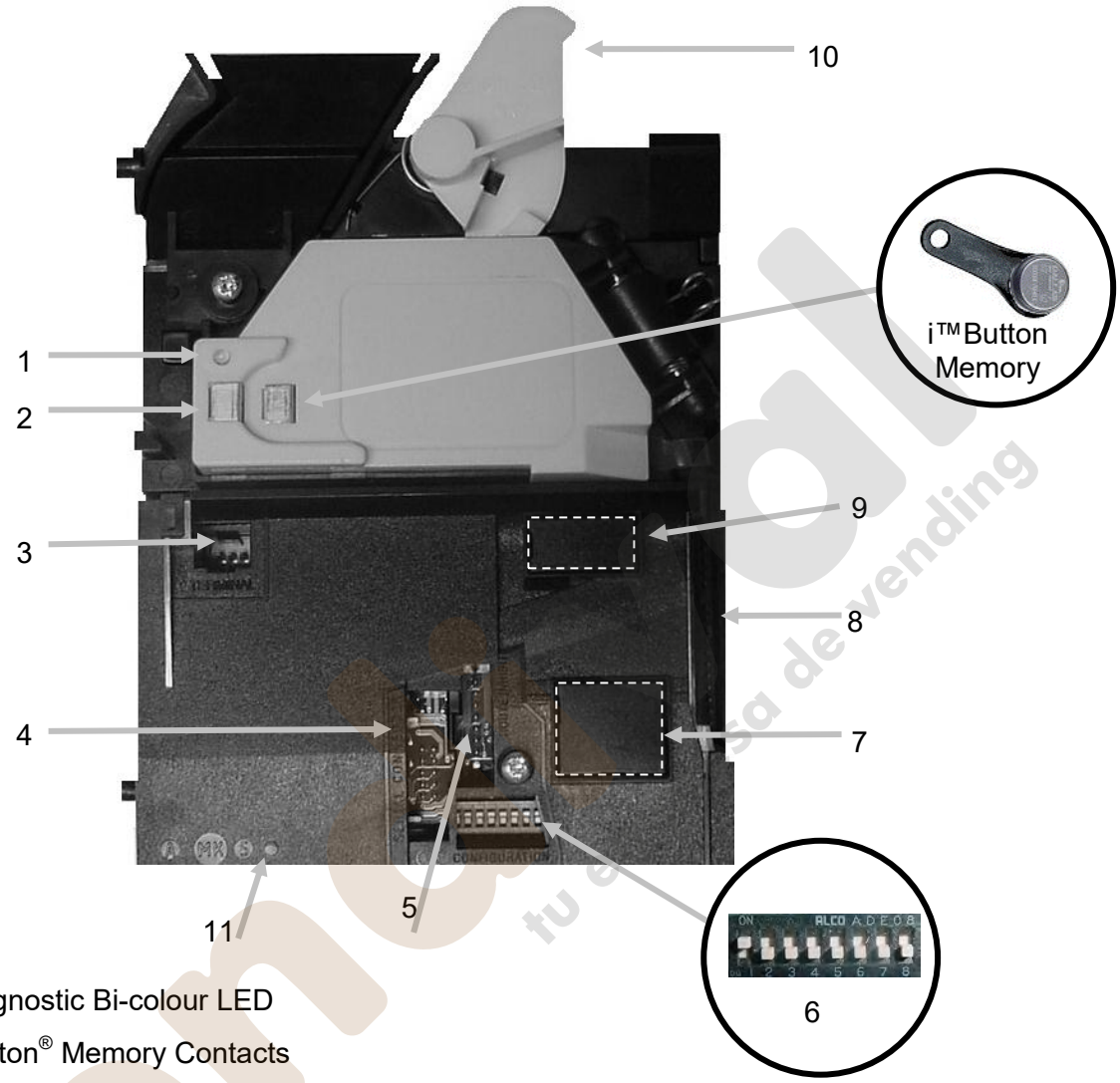
CashFlow® 111
&
CashFlow® 115
→ **CashFlow® 9520**
CashFlow® 9520e
→

CashFlow® 126 → **CashFlow® 9524**
CashFlow® 9524e
→

CashFlow® 129 → **CashFlow® 9528**
CashFlow® 9528e
→

CashFlow® 130 → **CashFlow® 9510**
→

PRODUCT FEATURES



Key:

1	Diagnostic Bi-colour LED
2	iButton® Memory Contacts
3	Support Tool Connector (i.e. CPM – Cashflow Programing Module)
4	a) Serial Interface Connector (HII) on CF952X b) Serial Interface Connector (HII/ccTalk®) on CF952Xe c) STD212, 12V 10-way Open Collector Parallel Interface on CF9510
5	Route Inhibit Connector (not available in CF9510)
6	Configuration Switches (8 way DIL)
7	Post-gate and Directional Strobes
8	Machine Interface Connector (CF952X/CF952Xe only, Dual polarity and BCO)
9	Pre-gate Strobe
10	Reject Lever
11	**a)** Separator Connector for CF952X/CF952Xe Series **b)** STD 124, 24V 16-way Open Collector Parallel Interface for CF9510

Diagnostic LED (1)

The bi-colour LED fitted to the CashFlow® CF952X/CF952Xe/CF9510 series validator indicates it"s operational and configuration status by way of colour code flashes. For normal operation, refer to the table below.

Normal Operation LED Codes	
◯ OFF	No power on product
(G) ☺	Unit Working OK
(R) ☹	Unit Faulty
When a Coin is Inserted	
(G) 1 x Flashes ➔ (G)	Coin Accepted by Unit
(R) 2 x Flashes ➔ (G)	Coin Unrecognised by Unit
(R) 3 x Flashes ➔ (G)	Coin Inhibited by Unit
(R) 4 x Flashes ➔ (G)	Coin Inhibited by Machine

Example: (G) 1 x Flashes ➔ (G) Green LED flashes once then LED turns to solid Green ON

LED Key = ◯ OFF (G) Green ON (G) Green Flashing (R) Red Flashing

iButton® Memory Contacts (2)

The iButton® memory (when placed onto the iButton® contacts) allows, routing and inhibit configuration data settings to be transferred from one CF952X/CF952Xe validator to another.

This feature is currently not available in the CF9510.

Service Tool Connector (3)

This 6-way connector is primarily used with the MEI service tool i.e. CPM and provides a simple way of re-programming the validator whilst in the machine.

Note: MEI Support Tools (CPM) will not work if the CF952Xe is in ccTalk mode

Serial Interface Connector (HII or ccTalk) (4)

CF952X/CF952Xe

This 10-pin connector provides a serial interface to an HII interface or ccTalk® for the CF952X and CF952Xe series. The serial mode is selected via the 8 way DIP switch.

Refer to the CF952Xe Series Product Specification for details about the command set implementation in support of the ccTalk® interface.

CF9510

This connector provides access to the STD212 12V, 10-pin dual inline interface. It provides the following input/output signals:

- Supply Voltage Input (12 volts)
- A to F Coin Outputs (output signal)
- All Inhibit signal (input signal)
- Escrow Return Signal (output signal)

Dynamic Route Inhibit Connector (5)

This is a 9-pin connector that provides input from the machine to the validator. Its function is to modify coin routing. When a specific exit is full, the host machine will signal to the validator to redirect subsequent coins to an overflow route.

E.g. If a specific exit route becomes full, the machine will send a signal to the validator instructing it to route any further coins to an alternative exit route.

This feature is not available in the CF9510 since the CF9510 does not support a Separator.

Configuration Switches (6)

The 8 way dual in line (DIL) switch provide a way to manually configure the validator. The following configurations can be achieved.

- Setting the alarm on or off
- Selecting dedicated serial HI2 operation
- Enable or Inhibit coins and tokens
- Teaching of tokens
- Teaching of primary, secondary and tertiary routes

CF952Xe

The 8 way dual in line switch behaves slightly differently in the CF952Xe. In these models, SW2 selects serial mode. Once in serial mode, SW1 is used to then select between HII or ccTalk®. If SW2 is off, SW 1 reverts to Alarm Enable/Disable functionality.

CF9510

In this variant, DIL switches 3 through 6 are identical to the CF952X/CF952Xe series. However, switches 1,2 and 7, 8 have different functions. Switches 1 and 2 select the active output mode, switch 7 selects parallel output teach, and switch 8 selects multi-pulse teach mode.

Machine Interface Connector (8)

This 17-way connector provides power to the validator. This connector carries the coin inhibit and coin outputs signals to and from the machine.

The connector provides the following input and outputs signals:

- Supply Voltage Input (12 volts)
- A to F Coin Outputs (output signal)
- A to F Coin Inhibits (input signal)
- Coin Output Common (input signal)
- Output Mode (input signal)

This connector in not available in the CF9510.

Pre-Gate Strobe and Directional Strobes (9)

The pre-gate stobe detects obstructions around the accept gate. If an obstruction is detected then coin acceptance is inhibited until the obstruction is cleared.

Directional strobes detect unauthorised entry of a coin for example, a coin or token entering through the bottom of the Unit.

Reject Lever (10)

The reject lever has two uses: -

- To clear coins jammed in the validators coin path
- To confirm programming operation

Separator Connector (11)

CF952X/CF952Xe

This connector is used to connect the validator to the separator on the CF952X and CF952Xe series.

CF9510

On the CF9510, this connector is used as the STD124 Open-collector Parallel interface. It provides the following input/output signals :

- Supply Voltage Input (24Vnom)
- A to F Coin Outputs (output signal)
- A to F Coin Inhibits (input signal)
- Escrow Return Signal (output signal)
- All Inhibit signal (input signal)

COIN ENTRY MOUNTING OPTIONS

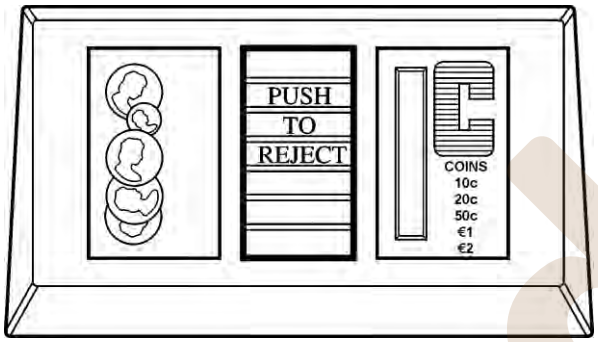
There are a number of accessories available for the CashFlow® 952x/CF952Xe/CF9510 series products. These accessories allow for easy mounting of the product to a wide range of machines.

The Entry Bezel and the Y-Chute options can be used with either the CashFlow® 9524/9524e and 9528/9528e top entry mechanisms.

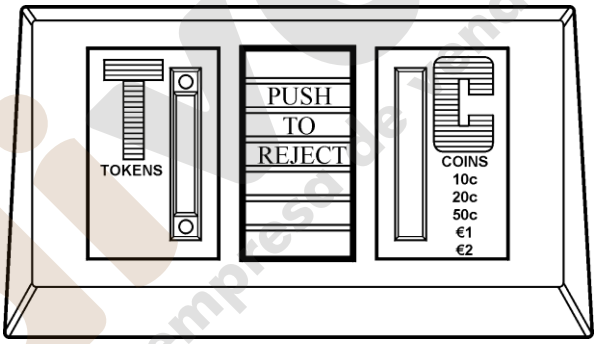
The CashFlow® 9524/9524e can be supplied for short channel mounting provided the machine has the appropriate mounting points for the bezel and Y-chute to be fitted.

Coin Entry Bezels

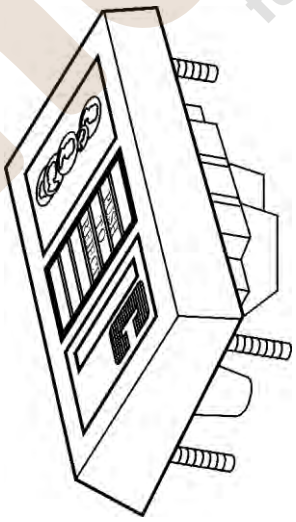
There are two entry bezel options available. The single coin option is used in coin only applications and the dual coin/token. Both versions incorporate a reject button that allows the return of jammed coin/tokens.



Single coin bezel



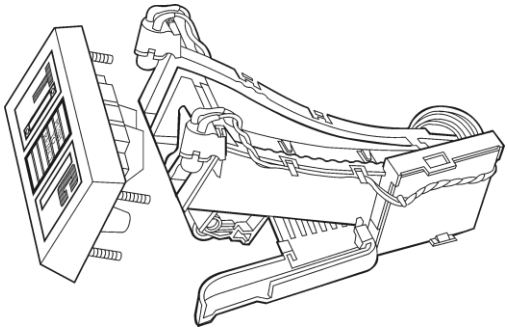
Coin/Token Bezel



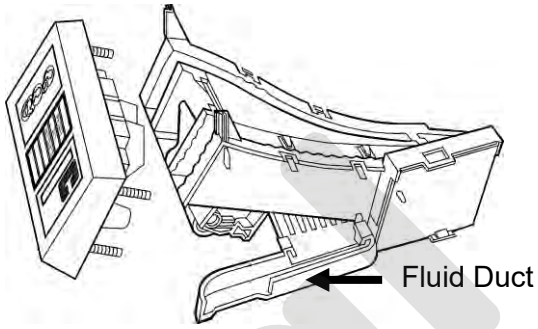
Coin Entry Bezels - Side View

Y-Chute Components

Two Y-chute options are available that are used in conjunction with the coin entry bezels. One type includes electronics with back illumination of the dual coin/token entry bezel (DCE) and the other has no electronics particularly suitable for coin only applications.

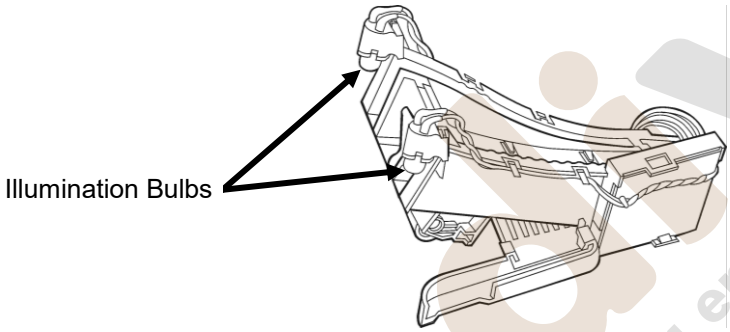


Electronic Y-Chute

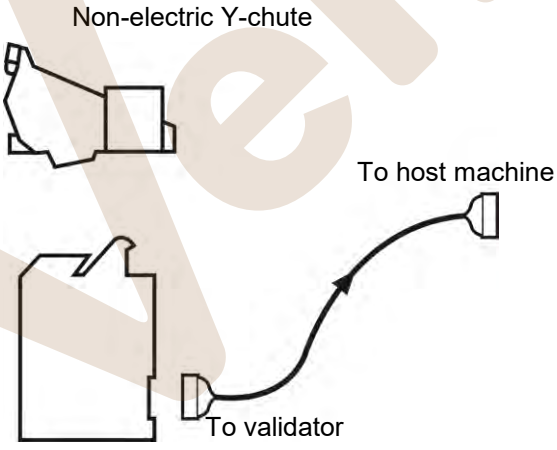


Coin Only Y-Chute

The overall design of both Y-chutes is the same, with the addition of electronics for back illumination being used with the dual coin/token option.

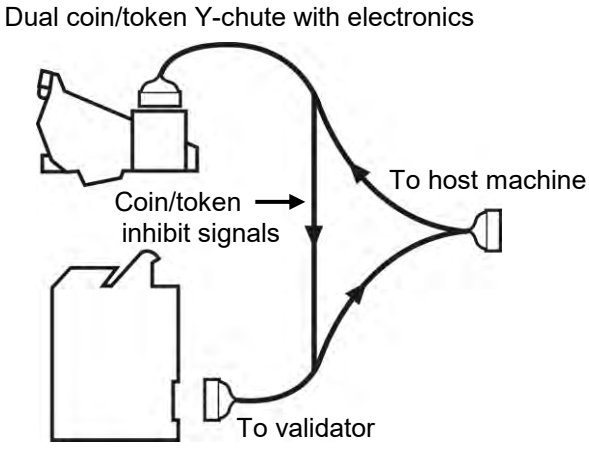


The two Y-chutes already referred to can both be used with the short channel version, but care must be taken to ensure that the required gap is maintained between the Y-chute reject arm link and the reject lever of the coin mechanism.



Coin Only Set-up

In a coin only application the interface loom from the machine goes directly to the validator.



Controller Set-up

The use of the dual coin/token application requires a different loom, which connects as shown above.

INSTALLATION

There are two types of machine mounting methods available, “Side Entry and Top Entry”. For side entry products the machine must have fitted a MEI front plate, for top entry mounting a metal channel is used.

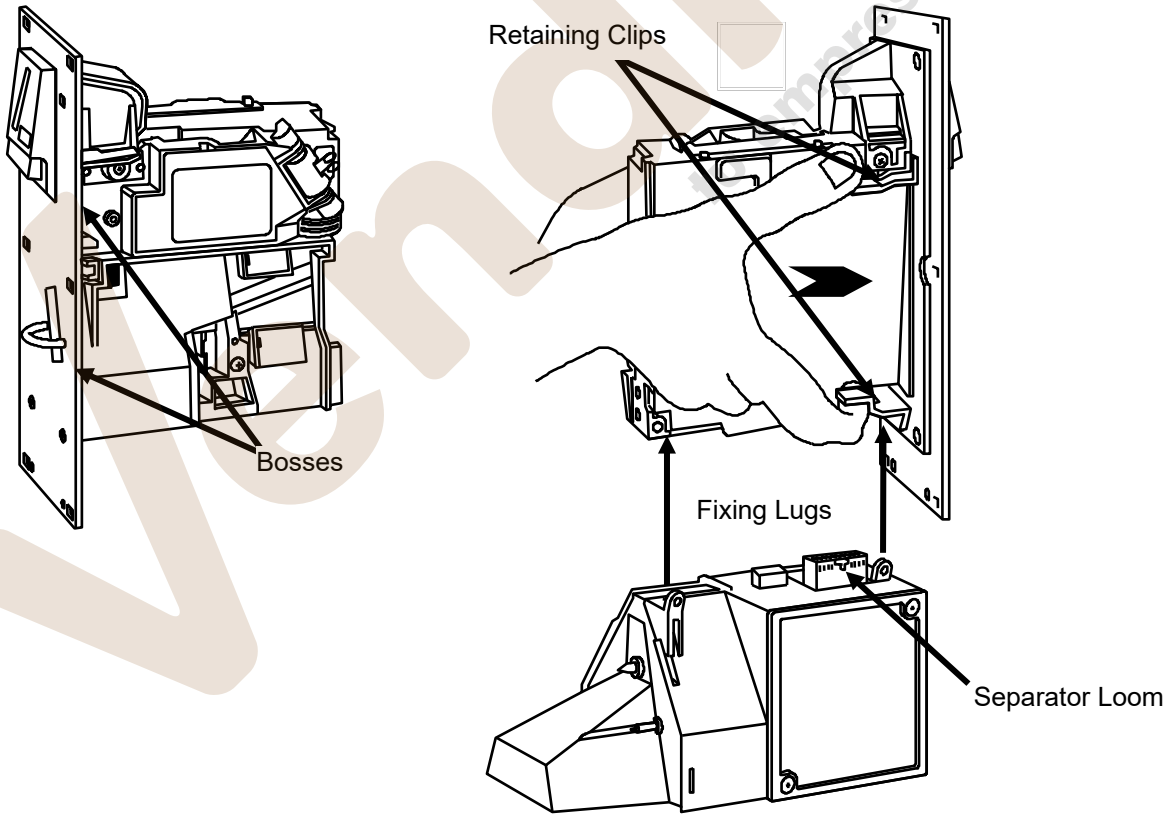
Installing or removing the CashFlow® product from your machine can be done by following these simple instructions.

- Connect the separator loom to the connector at the base of the validator and locate the rectangular boss on the top of the separator into the base of the validator.
- Firmly screw the separator fixing lugs onto the rear of the validator.
- Having ensured that the front plate has a firm location onto the front of the machine, insert the side of the validator onto the two round bosses at the rear of the front plate and push firmly together until the two retaining clips are fully engaged.

Side Entry Mounting

When installing the CashFlow® 9500 front entry product, it will be fitted to a MEI front plate and the following instructions will always apply.

Having ensured that the front plate has a firm location onto the front of the machine, insert the side of the validator onto the two round bosses at the rear of the front plate and push firmly together until the two retaining clips are fully engaged.



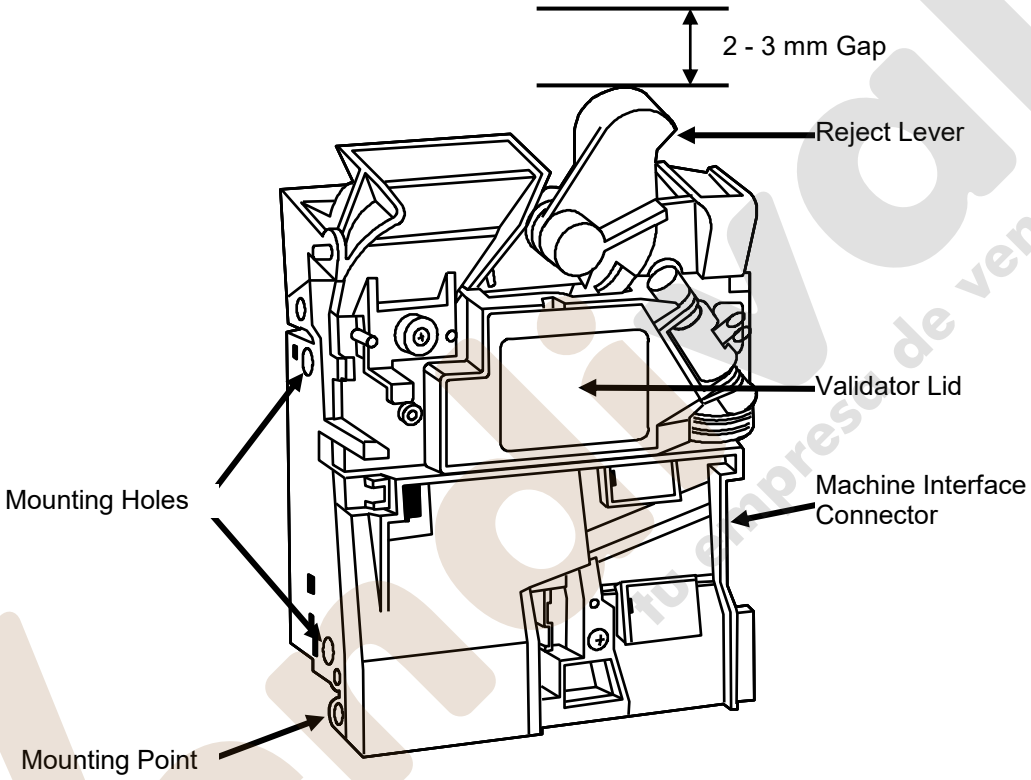
Note: Your product may differ slightly from some of the illustrations in this document.

Top Entry Mounting

The mounting channel for the CashFlow® 9524 top entry product is supplied by the machine manufacturer, and therefore some variations may exist from machine to machine, however in principle these instructions still apply.

When mounted into a channel the product must be fully assembled and ready for use, with only the machine interface loom to be connected.

The mounting points indicated must be firmly seated into the channel and a gap of between 2-3 mm left between the reject lever and the reject arm from the machine. This small gap will ensure that the validator lid is able to fully close when the reject button on the machine has been pressed and released.



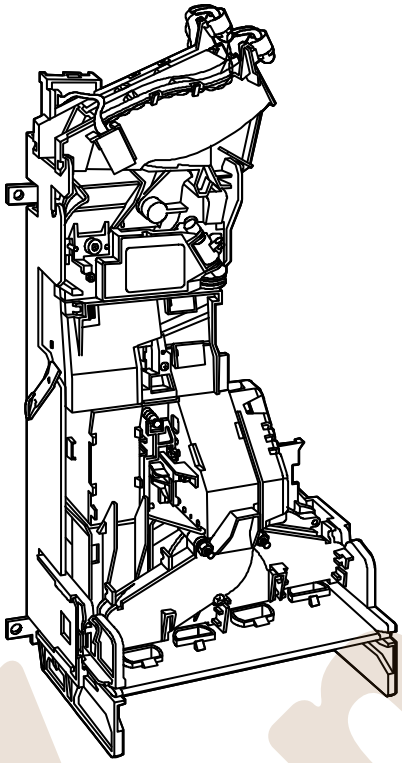
Note: Your product may differ slightly from some of the illustrations in this document.

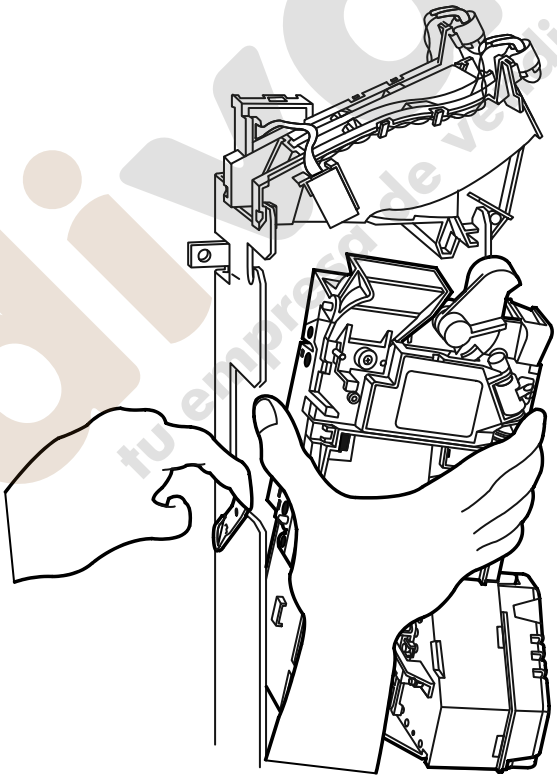
Cashflow 9528/9528e System Mounting

The CashFlow® 9528/9528e system consists of a channel, Y-chute, validator, 8-way separator, manifold and tube collar plate.

This is supplied as a complete system, but should you need to replace any part of it do so only in a set sequence, starting from near the top.

Note: The Y-chute can, of course, be removed first, but it is not necessary to do so just to access the other modules.



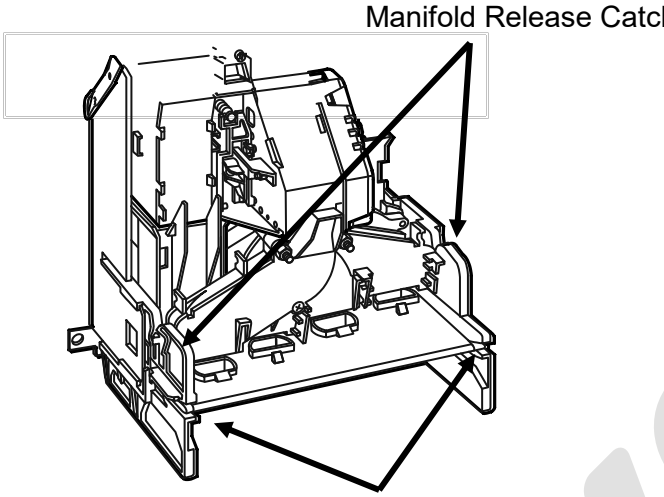


Note: Your product may differ slightly from some of the illustrations in this document.

- Ensure that power is turned off, not only to the validator, but also to the Y-chute if live.
- Disconnect machine interface loom, and the route inhibit connector.
- Disengage the release catch and lift the validator and separator upwards out of the mounting points. Pull the validator and separator forwards clear of channel.

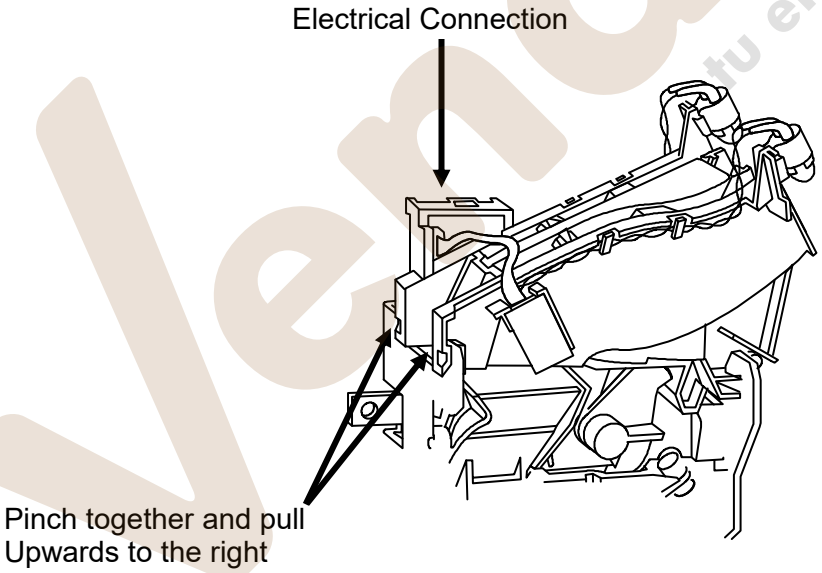
Removal of Manifold and Collar Plate

The manifold is supported in position by four lugs which slot into the side plates of the channel. It is retained there by two catches, as is the collar plate at the bottom.



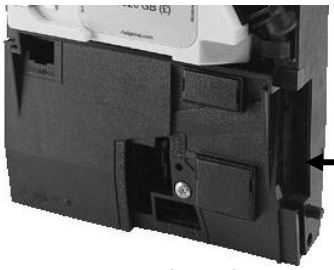
Removal of Y-chute

- Always disconnect the electrical connection first, if used, before removal of the Y-chute.
- Pinch together the bottom ends of the Y-chute and lift upwards and to the right from the channel.



MACHINE INTERFACE CONNECTOR

The interface to the validator from the machine is exactly the same as those that apply to the earlier MS/ME and CF1xx series validators, with the exception of pin 8 of the 17-way connector. Although the CF952X/CF952Xe series has a 17-way connector, it can accommodate a 15-way too.



The table below shows a comparison between the 17-way and 15-way connector functions based on both MEI and BACTA definitions.

17- Way Connector	15 - Way Connector	MEI Parallel Std	Input or Output	Pin No.	BACTA BCO Std
1	-	A coin o/p	O/P	1	Ident signal
2	1	B coin o/p	O/P	2	Accept o/p 5
3	2	Coin o/p Common	I/P	3	Accept o/p Common
4	3	F coin o/p	O/P	4	Accept o/p 1
5	4	Polarising Key 1	-	5	Polarising Key
6	5	E coin o/p	O/P	6	Accept o/p 2
7	6	D coin o/p	O/P	7	Accept o/p 3
8 *	7	Output mode	I/P	8	Select Line
9	8	C coin o/p	O/P	9	Accept o/p 4
10	9	C coin inhibit	I/P	10	Inhibit 4
11	10	+12V supply	I/P	11	+12V supply
12	11	0V supply	I/P	12	0V supply
13	12	D coin inhibit	I/P	13	Inhibit 3
14	13	E coin inhibit	I/P	14	Inhibit 2
15	14	F coin inhibit	I/P	15	Inhibit 1
16	15	B coin inhibit	I/P	16	Inhibit 5
17	-	A coin inhibit	I/P	17	Inhibit 6

Note: *The voltage applied to PIN 8 will result in either a parallel or BCO mode:

- For Parallel Mode – Apply a high voltage to PIN 8. (e.g. 5v up to a maximum 12 v)
- For BCO Mode – Apply a low voltage to PIN 8. (e.g. 0v)

This table shows the coin outputs and coin inhibits for particular coins.

In this table, it shows the most common coin outputs and coin inhibits used for a UK currency validator.

Coin Outputs and Currency		Coin Inhibits and Currency	
A	5p	A	5p
B	Token	B	Token
C	10p	C	10p
D	20p	D	20p
E	50p	E	50p & £2
F	£1	F	£1

ACCEPTANCE TEST

When the product is successfully mounted and connected to the machine, you will need to perform coin/token acceptance test. This test will confirm that the validator has been set up correctly.

After Installing the Validator

- Press and release the reject button on the machine.
- Confirm that the lid on the front of the validator closes fully when the reject button is released. If it does not close fully, the validator cannot function properly (i.e. coin/token may be rejected).
- Test that power to the validator is on by checking that the green LED is fully lit.

◯ OFF	No power on product
(G) ☺	Unit working OK
(R) ☹	Unit faulty

Testing for Acceptance

- Insert into the machine a selection of coins/tokens to check that they are accepted by the validator. The green LED will flash off once to indicate a valid accepted coin/token. If the coin/token has been rejected refer to the table below.

(G) 1 x Flashes ➔ (G)	Coin Accepted by Unit
(R) 2 x Flashes ➔ (G)	Coin Unrecognised by Unit
(R) 3 x Flashes ➔ (G)	Coin Inhibited by Unit
(R) 4 x Flashes ➔ (G)	Coin Inhibited by Host Machine

Example: (G) 1 x Flashes ➔ (G) Green LED flashes once then LED turns to solid Green ON

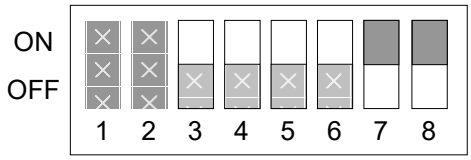
LED Key: = ◯ OFF (G) Green ON (G) Green Flashing (R) Red Flashing

COIN ROUTING CF952X/CF952Xe

This following diagrams show the coin exit paths for a routed coin. Coin Routing can be set using the configuration switches found on the front of the CF952X/CF952Xe. A primary, secondary, or tertiary route may be selected. Please refer to the configuration section relating to switches 7 and 8 combined.

SW7 on = Primary, SW8 on = Secondary, SW7 and SW8 on = Tertiary. Illustrated here are the switch setting for selecting Tertiary.

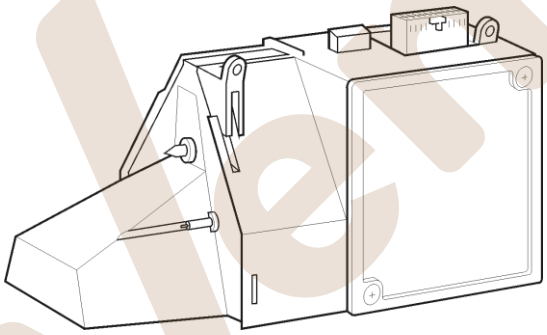
KEY = Switch OFF = Switch ON =Don't Care



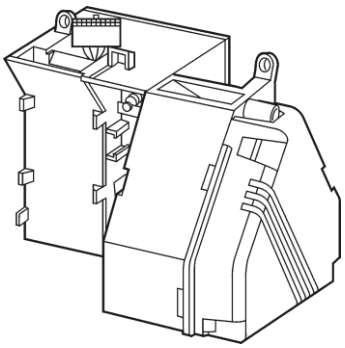
Switches 7, 8 or both 7 & 8 are Used for Route Teach. Depending on the route inhibit status, the acceptor has 4 routing priorities. These are referred to as:- Default, Primary, Secondary and Tertiary. Only the Primary, Secondary and Tertiary can be taught using switches 7 and 8 or both 7 and 8.

Notes:

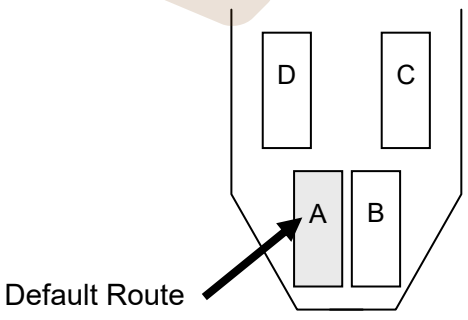
1. If the primary route gets full, coins for that route will automatically go to the secondary route.
2. All CF952X/CF952Xe Validators leave the factory programmed with “all coins to the default route”.

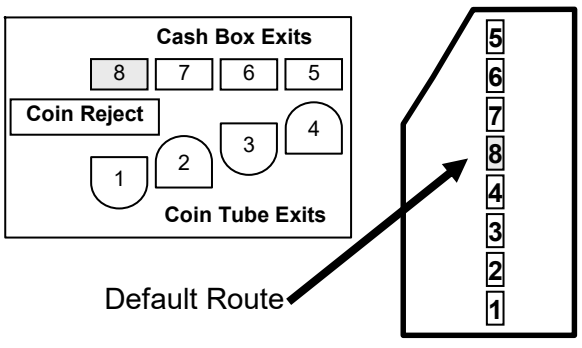


CF9524/CF9524e 4-WAY SEPARATOR
Default Route = A



CF9528/CF9528e 8-WAY SEPARATOR
Default Route = 8





Coin Routing Compatibility

In order that the CF952Xe fit into existing ccTalk® installations, it is important that the coin routes mimic those of the Money Controls SR5. Therefore, routing is changed to be compatible to the SR5 when in ccTalk® mode only, (SR5 mode) as shown below:

Route Nos		1	2	3	4	5	6	7	8
Exits	9524e	D	C	A	B	c	d	b	a
	9528e	1	2	3	4	5	6	7	8
	SR5 (4-way)	D	C	B	A	a	b	c	d
	SR5 (8-way)	1	2	4	3	8	7	5	6

For example, if the CF952Xe is in ccTalk® mode and a coin is requested to exit from path B, the machine would have to send that coin to route 3. However, in HII mode, the route selected by the machine for exit B would be 4.

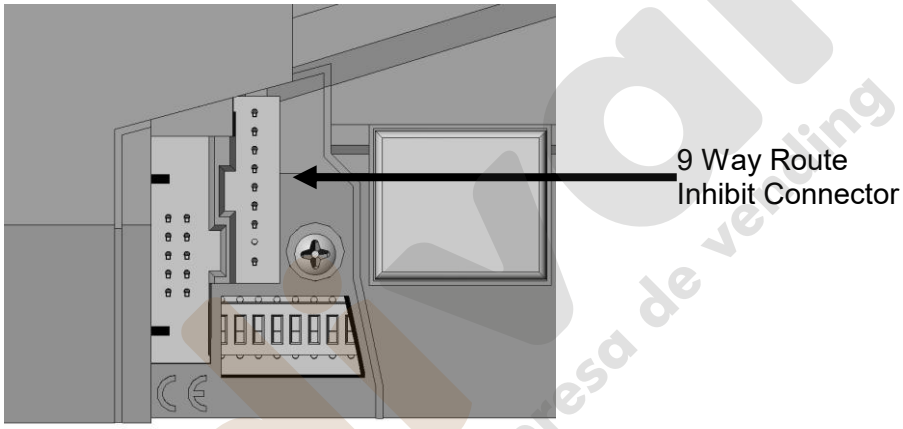
Route Inhibit Connector

The route Inhibit connector, when used in parallel mode, gives a signal when specific exits, (external to the product) are in a “Full” condition. Signals from the machine ensure that, while the “Full” condition continues, further coins/tokens directed to that exit will be re-routed to an alternative exit.

When in BCO or HI^2 mode this will depend on the machine signal sent to the CF952X/CF952Xe.

Notes:

1. In order to inhibit a particular route, 0V must be applied to its respective pin.
2. An alternative route must always be of a lower priority

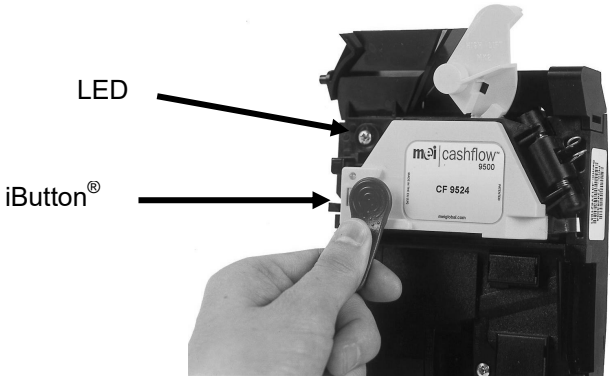


Route inhibit connections are via a 9 way header from the standard PCB. This header is a single row of 9 pins on a 0.1 inch grid. The pin size is 0.025 inch square.

Pin	Description for (CF9528/CF9528e)	Description for (CF9524/CF9524e)
1	Full 1	(d)
2	Full 2	(c)
3	Full 3	(a)
4	Full 4	(b)
5	Full 5	C
6	Full 6	D
7	Full 7	B
8	Polarised	Polarised
9	Ground	Ground

CONFIGURACION DE PRODUCTO

¿ Que hace la luz?



Operaciones normales

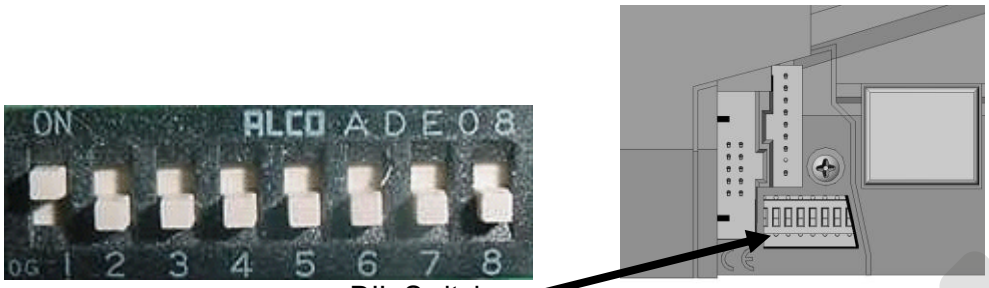
◯ OFF	Producto sin alimentación
(v) ☺	Unidad trabajando OK
(R) ☹	Unidad falla
(v) 1 x Flashes ➔ (v)	Moneda aceptada
(R) 2 x Flashes ➔ (v)	Moneda desconocida
(R) 3 x Flashes ➔ (v)	Moneda inhibida por selector
(R) 4 x Flashes ➔ (v)	Moneda inhibida por maquina

iButton® Functions

(v) Rapid x Flash ➔ (v)	CF952X/CF952Xe se esta programando con iButton
(v) Rapid Flash	iButton® programacion OK
(R) Rapid Flash	iButton® programacion error (volver a intentarlo)
(v) Rapid Flash	iButton® programando el CF952X/CF952Xe
(v)	Ningun error – programacion completa

LED Key: = ◯ OFF (G) Verde ON (V) verde Flashing (R) Rojo Flashing

Opciones de los switch



DIL Switches

CF952X

¿Necesitas cambiar los switches de ON a OFF para programar?

Switch up = **ON**  Switch down = **OFF** 

	**Description**	**Turn Power Off and On**
1	Activar alarma	No requerido
2	Mode estandar HII	Si
3	Habilitar monedas	Si
4	Inhibir monedas	Si
5	Enseñar ficha 1	Si
6	Enseñar ficha 2	Si
7	Enseñar ruta primaria	Si
8	Enseñar ruta secundaria	Si
7 & 8	Enseñar tura terciaria	Si

Note: Cuando estamos programando el selector y hay un periodo de inactividad de 30 segundos, el selector creera que hay un error, los cambio en la programación no tendran efecto y habra que empezar de nuevo.

CF952Xe

Most of the functionality of the DIL switches on the CF952Xe are identical to the CF952X, with the exception of the assignment and behavior of switches 1 and 2. On these models, Serial Mode is enabled by setting SW2 ON. While SW2 is ON, SW1 operates as a serial mode select switch. When SW1 is OFF, the serial mode selected is HII. When SW1 is ON, the serial mode selected is ccTalk.

Do I Need to Switch the Power Off and On?

Switch up = **ON**  Switch down = **OFF** 

	**Description**	**Turn Power Off and On**
1	Alarm Enable/ ccTalk®	Not Required / Yes
2	HII Serial Mode CcTalk Serial Mode	Yes (sw 1 OFF) Yes (sw 1 ON)
3	Enable Coin	Yes
4	Inhibit Coin	Yes
5	Teach Token 1	Yes
6	Teach Token 2	Yes
7	Primary Route Teach	Yes
8	Secondary Route Teach	Yes

CF9510

Again, the assigment of the switches is slightly different on the CF9510. While switches 3 through 6 remain the same as in the CF952X/CF952Xe, switches 1 and 2 select the output mode configuration. Switches 7 and 8 put the unit into Parallel Output teach mode and Multi-pulse teach mode, respectively.

Do I Need to Switch the Power Off and On?

Switch up = **ON**  Switch down = **OFF** 

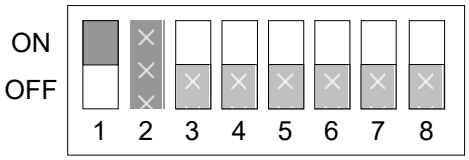
	**Description**	**Turn Power Off and On**
1	Parallel/BCO mode	Yes
2	Extended Features	Yes
3	Enable Coin	Yes
4	Inhibit Coin	Yes
5	Teach Token 1	Yes
6	Teach Token 2	Yes
7	Primary Route Teach	Yes
8	Secondary Route Teach	Yes

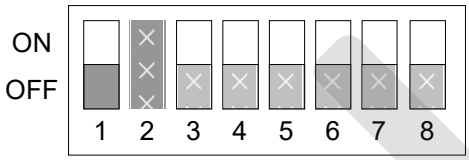
CF952X - SW1 – Activar alarma

SW1 - On – Alarma activada

SW1 - Off – Alarma desactivada

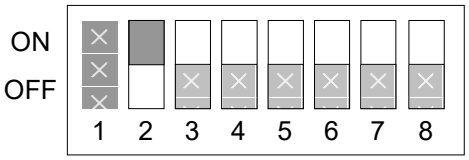
KEY = Switch OFF = Switch ON =No importa





Cuando el switch 1 esta en ON la alarma esta activada. La alarma no se activara hasta que se inserte la 1ª moneda. La alarma se podra activar o desactivar sin necesidad de quitar la alimentacion al selector.

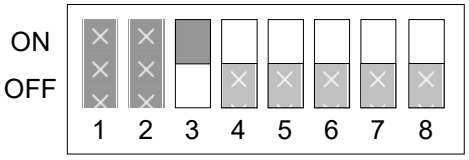
CF952X - SW2 – Modo estardar HII (Solo modo serie)



Este modo esta normalizado entre los usuarios que quieran esta interfase en sus maquinas.

SW3 – Habilitar moneda SW4 – Inhibir moneda

Activar una moneda:



Inhibit a Coin:

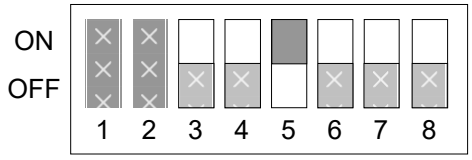
Step	Light	Operation and Action Required	
1	◯	Apagar la maquina	
2	◯	Para activar una moneda switch 3 en ON Para inhibir una moneda switch 4 en ON	
3	Ⓡ Lento	Encender la maquina	
4	Ⓡ Ⓥ Ⓡ Ⓡ Ⓥ Ⓥ Ⓡ	Insertar monedas a activar o inhibir. Moneda insertada reconocida – OK Moneda no reconocida (reinsertar moneda)	
5		Colocar switch 3 en OFF – final programación. Colocar switch en OFF – final programación.	
6	Ⓥ Ⓡ Rapid	Moneda aceptada / inhibida - OK Error – Volver a intentarlo.	

Codigo de colores para activar / inhibir monedas	
R Parpadeo lento	Insetar monedas en la unidad
R Parpadeo rapido	Error de programa
R V R	Moneda insertada reconocida
R V V R	Moneda insertada desconocida
V 4 x Flashes	Moneda insertada en memoria

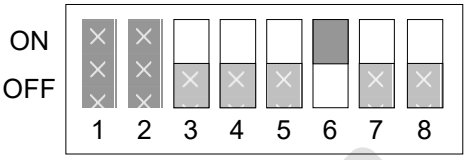
LED Key = ◯ OFF (G) Verde ON (V) Verdeparpadea (R) Rojoparpadea

SW5 – Enseñar ficha 1 y SW6 Enseñar ficha 2

Enseñar ficha 1: SW5 On



Enseñar ficha 2: SW6 On

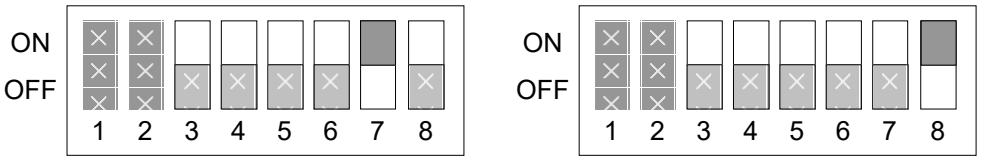


Step	Light	Operation and Action Required	
1	◯	Apagar la maquina	
2	◯	Programar ficha 1 colocar switch 5 en ON	
		Programar ficha 2 colocar switch 6 en ON	
3	(R) Slow	Encender la maquina	
4	(G)	Insertar fiches despacio (min. x 20). Si las fichas insertadas son reconocidas la luz verde comenzara a parpadear..	
5	(R)	Cuando se hayan insertado 20 ficgas aprox. La luz empezara a parpadear mas rapido.	
6	(G)	Colocar el switch 5 en OFF – final de programar fichas.	
		Colocar switch 6 en OFF – final de programar fiches.	
7	(R) Rapid	Fiches aceptadas - OK Error – Volver a intantarlo.	

LED Key: = ◯ OFF (G) Verde ON (G) Verdeparpadeo (R) Rojo parpadeo

SW7 and SW8 – Route Teach

(Common to the CF952X and CF952Xe)



El selector tiene 4 o 8 rutas de monedas dependiendo del estado de inhibicion de las rutas, las primeras rutas pueden ser programadas usando los switches 7 y 8.

El orden de prioridad es primario, secundario y terciario. Por ejemplo, si la ruta primaria esta completa, la ruta secundaria sera seleccionada.

En un CF9524/CF9524e 4-monedas separador, la ruta „a" es la ruta por defecto y en un CF9528/CF9528e 8-monedas separador la ruta '8'. Todos los selectores dejan la fabrica programados con " todas las monedas a la ruta por defecto".

Al programar una ruta, la palanca de devolución necesita ser presionada un numero especifico de veces (mirar tabla). Cuando en este modo la luz verde parpadeara (ciclo) la ruta actual, seguida de un unico flash rojo. Pulsa la palanca de devolución tantas veces como la ruta de la moneda lo requiera y entonces inserte la moneda o monedas que la ruta requiera.

Ejemplos:

El selector comenzara normalemente con la ruta por defecto del separador. Presionar la palanca de devolución para seleccionar las rutas, presionar una vez por posición.
Por ejemplo, presionando la palanca una sola vez se seleccionara la ruta b en un CF9524 y la ruta 7 en un CF9528. Esto sera indicado visualmente por la luz verde parpadeando 7 veces mientras que la luz roja parpadeara una sola vez.

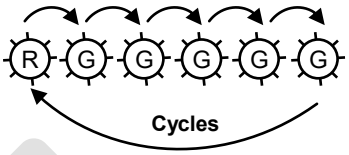
Presionando la palanca dos veces se selecciona la ruta d en un CF9524, o la ruta 6 en un CF9528. Esto sera indicado visualmente por la luz verde que parpadeara 6 veces mientras que la luz roja parpadeara una vez.

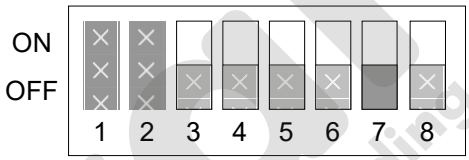
Este modelo sera repetido hasta que se deje de presionar la palanca, cuando en Nuevo modelo de ruta sea mostrado.Si una moneda es insertada entonces la luz verde parpadeara si la moneda es reconocida, o la luz roja parpadeara si la moneda es desconocida.

Nº de presiones de palanca	0	1	2	3	4	5	6	7
Nº de parapadeos de la luz verde	8	7	6	5	4	3	2	1
Ruta seleccionada (CF9524/CF9524e - 4 way)	a	b	d	c	B	A	C	D
Ruta seleccionada (CF9528/CF9528e - 8 way)	8	7	6	5	4	3	2	1
Ruta inhibida Connector Pin No.	8	7	6	5	4	3	2	1

Ejemplo: Como seleccionar la ruta primaria c en un CF9524 (4-way separator) – ver las areas sombreadas

1. Apagar la máquina.
2. Colocar el switch 7 en ON
3. Encender la mauina
4. Presionar la palanca de dev. 3 veces (la luz hara la siguiente secuencia)
5. Inserta las monedas requeridas para la ruta.
6. Colocar el switch 7 en off.





Nº presiones de la palanca	0	1	2	**3**	4	5	6	7
Nº de parpadeos verdes	8	7	6	**5**	4	3	2	1
Salidas del separador	a	b	d	**c**	B	A	C	D

Procedimiento programar ruta.

Step	Light	Operation and Action Required	
1	◯	Apagar la máquina	
2	◯	Para ruta primaria colocar switch 7 en ON	
		Para ruta secundaria colocar switch 8 en ON	
		Para ruta terciaria colocar switch 7 y 8 en ON	
3	(R) Slow	Encender la maquina	
4	(R) + ? (V)	Presionar la palanca el numero de veces que la ruta lo requiera.	
5	(V) (V) (V) (V) (R) (R) (R) (R)	Insertar la moneda para la ruta requerida. Moneda insertada reconocida - OK Moneda no reconocida (reinsertar moneda).	
6		Para ruta primaria colocar switch 7 en ON.	
		Para ruta secundaria colocar switch 8 en ON.	
		Para ruta terciaria colocar switch 7 y 8 en ON.	
7	(V) (R) Rapid	Ruta programada – OK. Error – Intentar programar otra vez.	

LED Key: - ◯ OFF (G) Verde ON (G) Verdeparpadeo (R) Rojoparpadeo

CF9510 - SW7 - Parallel Output Teach

On the CF9510, SW7 is entered by setting SW7 ON, and turning the unit ON. The principle for this is the same as the route teach operation on the CF952X series acceptor. The LED will blink green a number of times followed by one red blink. The number of green blinks equates to the output to be set and can be changed by pressing the reject lever as defined in the following table:

Number of Reject Lever Presses	**0**	**1**	**2**	**3**	**4**	**5**
N° Of Green Flash Code	1	2	3	4	5	6
Output Selected	A	B	C	D	E	F

Once the desired output is selected, then the coin whose output is to be taught should be dropped into the acceptor. Mulitple coins outputs can be taught in one teach session.

CF9510 - SW8 - Multi-pulse Teach

On the CF9510, SW8 is used to enter Multi-pulse Teach Mode. As with Parallel Output Teach Mode, the unit must be power-cycled for the switch setting to be acknowledged. Again, for this operation, the LED will blink green a number of times followed by one red blink. The number of green blinks equates to the number of pulses to be set and can be changed by pressing the reject lever. The maximum number of pulses that can be set via the MMI for each coin is 4. However 8 can be set using the support tool, if necessary.

Number of Reject Lever Presses	**0**	**1**	**2**	**3**
N° Of Green Flash Code	1	2	3	4
Number of Pulses Selected	1	2	3	4

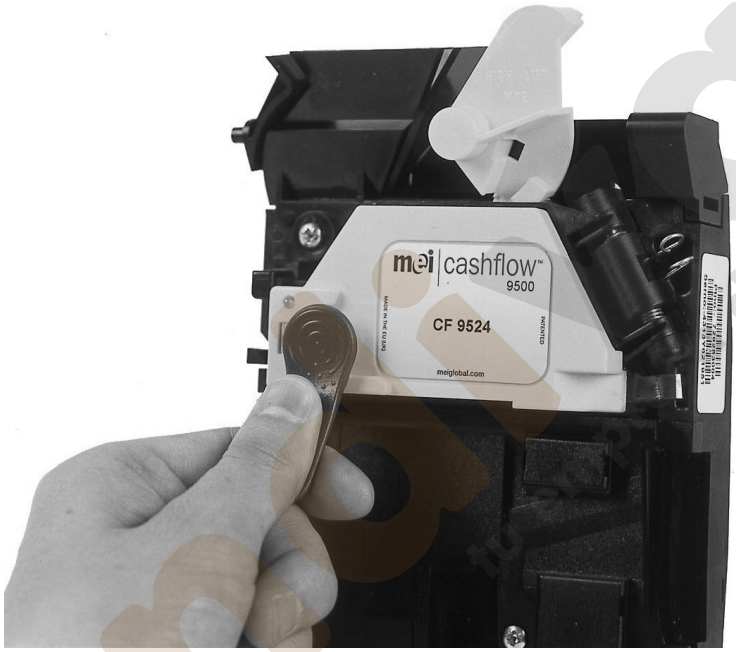
USING THE iBUTTON®

The iButton® is a memory device used to transfer coin routes and inhibit information from one CF952x/CF952Xe acceptor to another. There is no routing plug required, with all routing information held in the validator. This feature is not currently available on the CF9510 since this unit does not support a Separator.

The iButton® stores data which when read by the acceptor will update it with respect to the coin routes and coin inhibits. All of these functions will take effect when the acceptor detects that an iButton® has been placed on the contacts on the lid.

Note: The CF952x/CF952Xe does not use routing plugs.

See iButton® Functions on page 25 for the LED functions.



User Operation

The read/write process is started when the acceptor detects that an iButton® has been placed on the contact pads located on the front. The LED will indicate this by flashing the LED green.

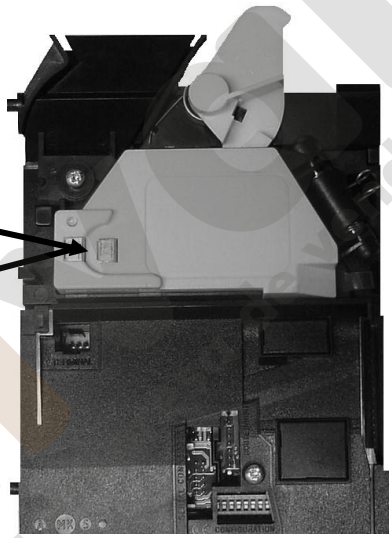
If the iButton® type is not supported, then the software will indicate this by flashing the LED Red.

Concept

iButton® - (Before)

Data not known within this iButton® memory

Field Base CF952x/CF952Xe



iButton® - (After)

Validator data transferred to iButton®

iButton® new data now:

CF952x/CF952Xe Pays Out

10c, 20c, 50c,1€ & 2€

Routes Coins

10c to Exit A

20c to Exit B

50c to Exit C

1€ & 2€ to Exit D

CF952x/CF952Xe Pays Out

10c, 20c, 50c,1€ & 2€

Routes Coins

10c to Exit A

20c to Exit B

50c to Exit C

1€ & 2€ to Exit D

Now use the iButton® to program the Field Base CF952X/CF952Xe Validators with the same configuration. See Configuring the iButton® on page 39.

Configuring the iButton®

The procedure below explains how to program the iButton® from a known CF952X/CF952Xe.

Step	Light	Operation and Action Required	
1		Press and hold down the reject lever.	
2	(G) Rapid	Place i™ Button on to iButton® contacts.	
3	(G) Slow	Light will flash, also Accept Gate will buzz.	
4		Remove iButton® from contacts.	
5		Release the reject lever.	
6	(G) (R) Rapid	iButton® programmed OK Error iButton® not programmed (re-try).	

Using the iButton® to Program

How to program a CF952X/CF952Xe using the iButton®

Step	Light	Operation and Action Required	
1	(G) Slow	Place iButton® on to iButton® contacts.	
2	(G)	Light will flash and Accept Gate will click.	
3	(G) Slow	Remove iButton® from contacts.	
4		Press the reject lever to confirm. Accept Gate will click then release the reject lever.	
5	(G) (R)	CF952X/CF952Xe programmed OK Error - CF952X/CF952Xe failed programming (re-try).	

LED Key: = ◯ OFF (G) Green ON (G) Green Flashing (R) Red Flashing

MAINTENANCE

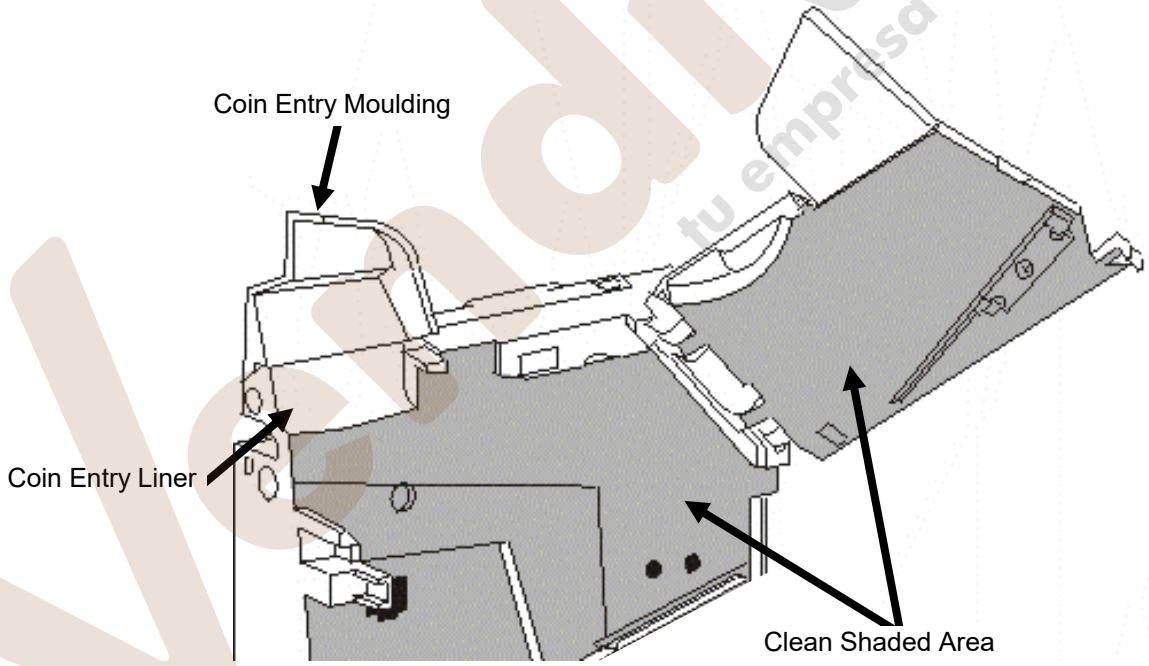
Note: The practical maintenance that can be carried out is limited to cleaning the areas of the validator that the coins travel through, and the replacement of the coin entry liner if it becomes worn. All other servicing should be carried out at your approved service centre.

The cleaning should be carried out on a regular basis of at least once a month.

The shaded areas shown below are those to be cared for.

The coin entry liner is accessed by unscrewing the coin entry moulding at the top of the validator. The coin entry liner can then be eased off with the aid of a fine screwdriver, and a replacement slid into place.

- Cleaning and maintenance must only be carried out by suitably trained personnel.
- Cleaning must only be carried out after power has been removed from the product.
- Never use a cleaner containing solvents, scrapers or abrasive materials.
- Never apply water or cleansers directly onto the product. Always apply them to a clean cloth first, and not too liberally, so that the cloth used is only moist.



PRODUCT SUPPORT

In addition to the MEI offices around the world an international network of Distributors and Approved Service Centres can offer you technical support and other services as well.

These services include repairs, re-programming of your CashFlow® products with new coinsets, replacing damaged modules, and the supply of a range of spare parts.